



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

Ultimate Door of Palm Beach, Inc.  
2800 North 2<sup>nd</sup> Avenue  
Lake Worth, FL 33461

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

### DESCRIPTION: Series Alum Clad Outswing Wood French Doors – L.M.I.

**APPROVAL DOCUMENT:** Drawing No. 1748, titled series "Aluminum Clad Wood Impact Out-Swing French Doors," Sheets 1 through 17 of 17, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated AUG 02, 2012, signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

#### Limitations:

1. Max. Single partial raised panel allowed is 26"W X 32"H= 832 in<sup>2</sup> or multi-mid rails with partial raised panel not to exceed 832 in<sup>2</sup> total area.
2. Except where cluster anchors are specified, the #8 nail fin perimeter fasteners must not exceed 9" O.C.
3. Min four (4) frame screws at mullion end (Sill) are required, when tributary load width is 33-1/2" or less or when mullion span is 96" or less.
4. Direct Glazed Windows (DWG Ref. # 1749) by Ultimate Door are under current separate NOA.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 12-0410.11 and consists of this page 1 and evidence pages E-1 & E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Ishaq I. Chanda, P.E.



NOA No. 14-0424.02  
Expiration Date: April 16, 2016  
Approval Date: July 10, 2014  
Page 1

8  
7/11/14

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**A. DRAWINGS**

1. Manufacturer's parts drawings and sections(submitted under files #12-0410.11/# 11-0310.01)
2. Drawing No. 1748, titled series "Aluminum Clad Wood Impact Out-Swing French Doors," Sheets 1 through 17 of 17, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated AUG 02, 2012, signed and sealed by Warren W. Schaefer, P.E.

**B. TESTS (transferred from file #12-0410.11/#11-0310.01)**

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of outswing alum clad wood French doors w/ mullions, an alum clad outswing Arch double wood door and alum clad outswing Rectangular double wood doors , prepared by Architectural Testing Lab, Test Report No. **B5667.02-450-18** dated 07/02/12, signed and sealed by Vinu Abraham, P. E.

2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94

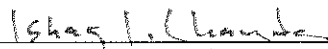
along with marked-up drawings and installation diagram of an out-swinging wood clad aluminum French door prepared by Hurricane Test Laboratory, LLC, Test Reports No.'s **HTL-0026-1008-94** and **HTL-0026-0214-97**, dated 11/14/94 and 01/09/97, **HTL-0026-1017-99**, dated 10/22/99, all signed and sealed by Timothy Marshall, P. E. and Test Laboratory, LLC, Test Report No. **HTL-0026-1212-99**, dated 12/08/99, signed and sealed by Vinu J. Abraham, P. E. (submitted under file # 11-0310.01)

3. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of an out-swinging wood clad aluminum French door, prepared by Hurricane Test Laboratory, LLC, Test Reports No's. **HTL-0026-1023-95**, **HTL-0026-0508-95** and **HTL-0026-1212-99**, dated 1/23/95, 5/12/95 and 12/08/99, **HTL-0026-0913-96**, dated 06/26/97 and 09/23/96, **HTL-0026-0508-95** and **HTL-0026-0123-95**, dated 01/23/95 and 05/12/95, all signed and sealed by Timothy Marshall, P. E. (submitted under file # 11-0310.01)


4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings of pair of outswing wood and fixed lite (OOX) & XX/O, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-0026-0320-97**, dated 03/27/97, **HTL-0026-0405-97**, dated 08/27/97 and **HTL-0026-0214-97 (TAS- 201)**, dated 05/09/97, all signed and sealed by Timothy Marshall, P. E. (transferred from file # 11-0310.02)  
Note: The original tests conducted were per SFBC PA 202, 201 and 203-94, now termed as FBC, TAS 202, 201 and 203-94.

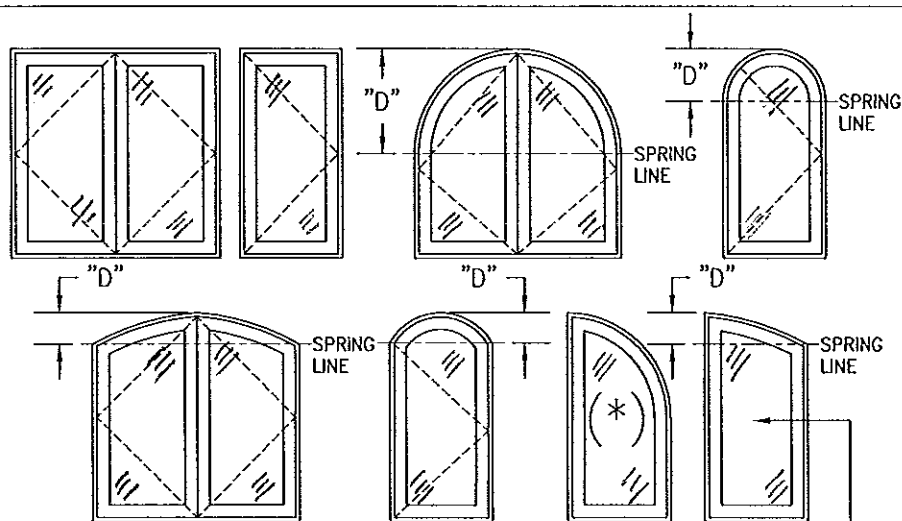
  
Ishaq I. Chanda, P.E.  
Product Control Examiner  
NOA No. 14-0424.02  
Expiration Date: April 16, 2016  
Approval Date: July 10, 2014

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

- C. CALCULATIONS** (submitted under files #12-0410.11)
1. Anchor verification calculations and structural analysis, complying with FBC-2010, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated AUG 02, 2012, signed and sealed by Warren W. Schaefer, P. E.
  2. Glazing complies w/ ASTM E-1300-02 & -04.
- D. QUALITY ASSURANCE**
1. Miami Dade Department of Regulatory and Economic Resources (RER).
- E. MATERIAL CERTIFICATIONS**
1. Notice of Acceptance No. **11-0624.04** issued to E.I. DuPont DeNemours & Co., Inc. for their “**DuPont Sentry Glass ® Interlayer**”, expiring on 01/14/17.
- F. STATEMENTS**
1. Statement letter of conformance to FBC 2014(**5<sup>th</sup> Edition**) and letter of no financial interest, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated April 15, 2014, signed and sealed by Warren W. Schaefer, P.E.
  2. Statement letter, prepared by W. W. Schaefer Engineering & Consulting, P.A. dated April 10, 2014, of NOA Drawings and testing have been reviewed to 2014 FBC and found compliant and that No change to existing NOA documents are required, signed by Warren W. Schaefer, P.E.
  3. Statement letter of conformance to FBC 2010 and letter of no financial interest, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated Jul 09, 2012, signed and sealed by Warren W. Schaefer, P.E. (submitted under files **12-0410.11**)
  4. Lab compliance as part of the above referenced test reports.
- G. OTHER**
1. This NOA **revises** NOA # **#12-0410.11**, expired on April 16, 2016.
  2. Series Un-clipped wood mullion NOA # 11-0310.02.
  3. Test proposal, dated 03-10-11 and e-mail correspondence approval dated 08-02-12 approved by PERA.
  4. Previous associated files are NOA(s) #11-0310.01, # 05-0824.03, 01-0327.01, 00-0912.03, 99-0317.06 and 97-0912.01.

  
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Ishaq I. Chanda, P.E.  
Product Control Examiner  
NOA No. 14-0424.02  
Expiration Date: April 16, 2016  
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## APPROVED SHAPES



## NOTES:

1. FIXED PANEL DOOR FRAME WIDTH SHALL NOT BE GOVERNED BY SHAPE OF DOOR.
2. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION AS DESCRIBED IN THIS DRAWING.
3. THE SHAPES LABELED (\*) ARE ONLY APPLICABLE TO FIXED PANEL DOORS (NOT APPLICABLE TO OPERABLE DOORS).

THIS SHAPE MAY BE USED AS AN OPERABLE DOOR ONLY IF SPRING LINE HEIGHT ABOVE SILL IS 80" OR MORE

HINGE REQUIREMENTS  
(HALF-ROUND TOP DOUBLE DOORS)

PANEL HEIGHT	QUANTITY PER PANEL
OVER 96"	4
96" OR LESS	3

## NOTES:

1. HINGE CENTERLINES SHALL BE LOCATED APPROXIMATELY 3 1/2" BELOW FRAME SPRING-LINE, 9 1/4" ABOVE BOTTOM OF SILL AND EQUALLY SPACED BETWEEN.

HINGE REQUIREMENTS  
(RECTANGULAR & EYEBROW TOP DOUBLE DOORS & ALL SINGLE DOORS)

PANEL HEIGHT	QUANTITY PER PANEL
OVER 96"	5
96" OR LESS	4

## NOTES:

1. HINGE CENTERLINES SHALL BE LOCATED APPROXIMATELY 7 1/2" BELOW TOP OF DOOR FRAME OR BELOW FRAME SPRING-LINE, 9 1/4" ABOVE BOTTOM OF SILL AND EQUALLY SPACED BETWEEN.

## FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/HINGE/ FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME & HINGE SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 12 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 16 GA. 33 KSI METAL STUD	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
(2) MIN. C-90 CMU	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 3/4"	2"
(2) NAILING FIN FASTENERS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS SCREW	1 1/8"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).

(2) CMU IS NOT APPLICABLE AT THE HEAD AND SILL.

## ALLOWABLE DESIGN PRESSURE

## (ALL SINGLE &amp; DOUBLE RECTANGULAR OPERABLE DOORS &amp; ALL SINGLE FIXED PANEL DOORS)

(2) MAX. FRAME HEIGHT (IN.)	(2) MAX. FRAME WIDTH (IN.)	ALLOWABLE PRESSURE (1) (PSF)	
		POS.	NEG.

## SINGLE DOORS

120	43 1/2	50.0	50.0
	40 1/2	53.7	53.7
	37 1/2	58.0	58.0
	34 1/2	63.0	63.0
108	32 1/2	65.0	65.0
	43 1/2	55.6	55.6
	40 1/2	59.7	59.7
	37 1/2	64.4	64.4
102	36 1/2	65.0	65.0
	43 1/2	58.8	58.8
	40 1/2	63.2	63.2
	38 1/2	65.0	65.0
96	43 1/2	62.5	62.5
	41 1/2	65.0	65.0
92	43 1/2	65.0	65.0

## DOUBLE DOORS

120	84	50.0	50.0
	78	53.8	53.8
	72	58.3	58.3
	66	63.6	63.6
108	64	65.0	65.0
	84	55.6	55.6
	78	59.8	59.8
	72	64.8	64.8
102	71	65.0	65.0
	84	58.8	58.8
	78	63.3	63.3
	76	65.0	65.0
96	84	62.5	62.5
	80	65.0	65.0
92	84	65.0	65.0

## ALLOWABLE DESIGN PRESSURE

## (SINGLE &amp; DOUBLE SHAPED TOP OPERABLE DOORS)

MAX. FRAME HEIGHT (IN.)	MAX. FRAME WIDTH (IN.)	ALLOWABLE PRESSURE (1) (PSF)	
		POS.	NEG.

## SINGLE DOORS

120	37 1/2	50.0	50.0
	34 1/2	54.3	54.3
	31 1/2	59.3	59.5
	28 1/2	65.0	65.0
108	37 1/2	55.6	55.6
	34 1/2	60.4	60.4
102	31 1/2	65.0	65.0
	37 1/2	58.8	58.8
96	34 1/2	63.9	63.9
	33 1/2	65.0	65.0
92	37 1/2	62.5	62.5
	35 1/2	65.0	65.0

## DOUBLE DOORS

120	72	50.0	50.0
	66	54.5	54.5
	60	60.0	60.0
	55	65.0	65.0
108	72	55.6	55.6
	66	60.6	60.6
	61	65.0	65.0
	72	58.8	58.8
102	66	64.2	64.2
	65	65.0	65.0
96	72	62.5	62.5
	69	65.0	65.0
92	72	65.0	65.0

(1) POSITIVE PRESSURE SHALL BE LIMITED TO +50 PSF WHEN DOORS ARE TO BE WATER INFILTRATION RATED.

(2) SEE LOCK OPTIONS TABLE FOOTNOTE 2 FOR FRAME SIZE RESTRICTION WHEN LOCK COMBINATION 35 & 36 ARE USED WITH ACTIVE PANEL OF DOORS.

## (1) (2) LOCK OPTIONS

DOUBLE DOOR ACTIVE PANEL	USE LOCK PART #31, 33 OR COMBINATION OF 35 & 36
SINGLE RECTANGULAR DOOR PANEL	USE LOCK PART #31, 33, 38 OR COMBINATION OF 35 & 36
DOUBLE DOOR INACTIVE PANEL	USE LOCK PART #32, 34 OR 36
SHAPE TOP SINGLE DOOR PANEL	USE LOCK PART #38

(1) LOCK PART #36 SHALL EXIST AT TOP & BOTTOM OF DOOR PANEL.

(2) WHEN LOCK COMBINATION OF PART #35 & 36 IS USED WITH ACTIVE DOOR PANELS, FRAME SIZE OF DOOR MAY NOT EXCEED 72" WIDE X 96" TALL WITH DOUBLE DOORS NOR 37 1/2" WIDE X 96" TALL WITH SINGLE DOORS.

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

## GENERAL NOTES:

1. THESE DOOR SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT DOORS.
5. THESE DOOR SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE DOORS.
7. ALL ANCHORS SECURING DOOR FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF Kd = 0.85 MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR Cd = 1.6 WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
11. ALL WOOD MEMBERS OF DOORS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2326.

## PRODUCT REVISED

as complying with the Florida

Building Code

Acceptance No. 12-0410.11

Expiration Date APR 16, 2016

By Ishaq I. Chaudhry  
Product Control

## PRODUCT REVISED

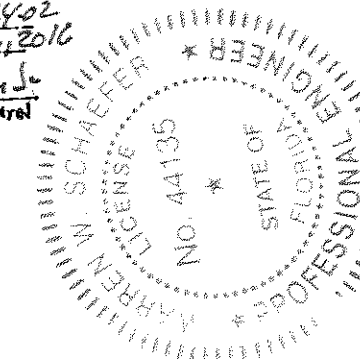
as complying with the Florida

Building Code

Acceptance No. 14-042402

Expiration Date APR 16, 2016

By Ishaq I. Chaudhry  
Product Control



DRAWN BY: W.R.M. CHECKED BY: W.W.S.  
PLOT: 1-24 DATE: 07/09/12

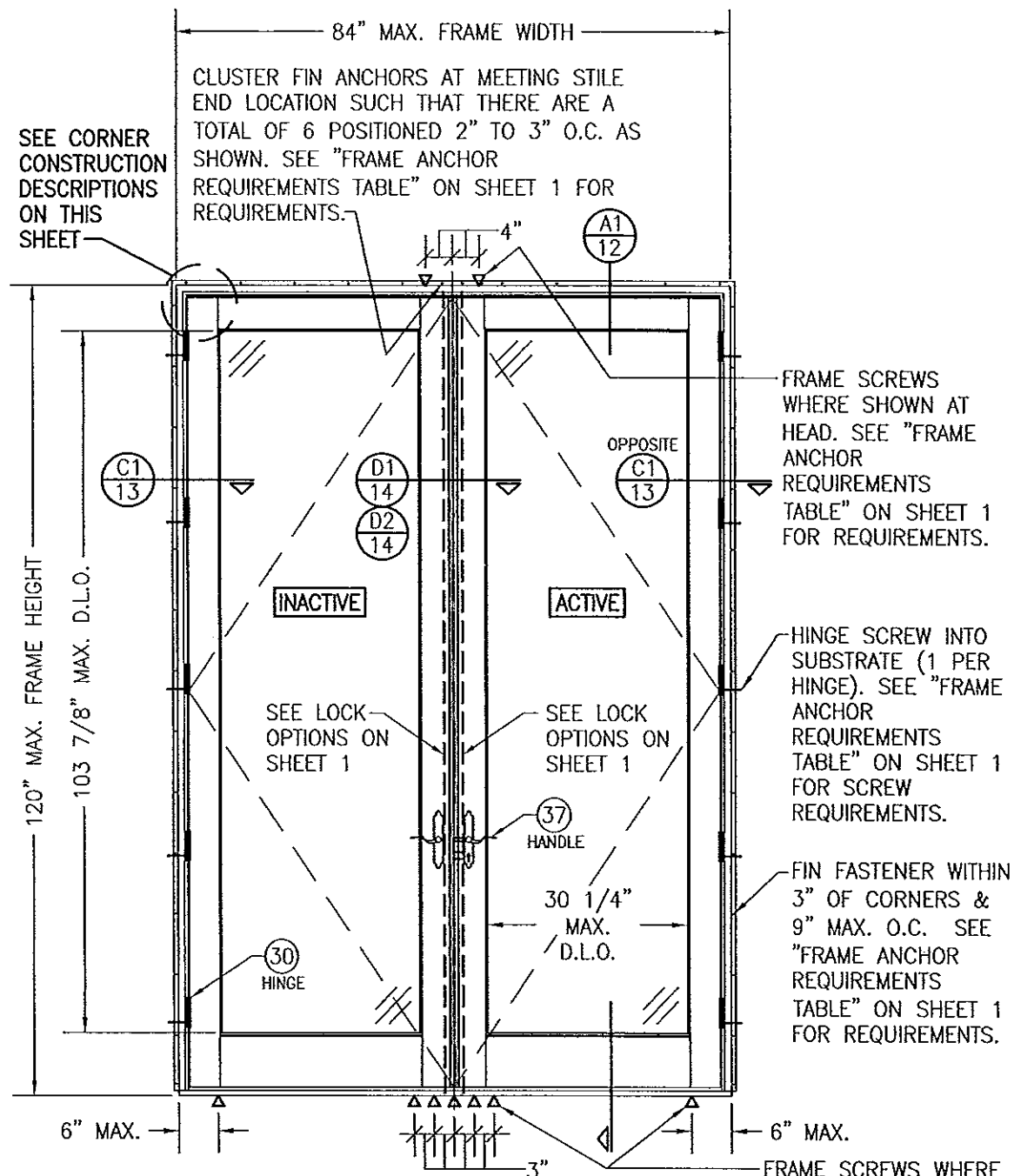
DATE	BY	REVISION DESCRIPTION	NO.

DRAWING TITLE  
ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR

MANUFACTURER  
ULTIMATE DOOR OF PALM BEACH, INC.  
2800 2ND AVE. NORTH  
LAKE WORTH, FL 33461  
561-642-2828

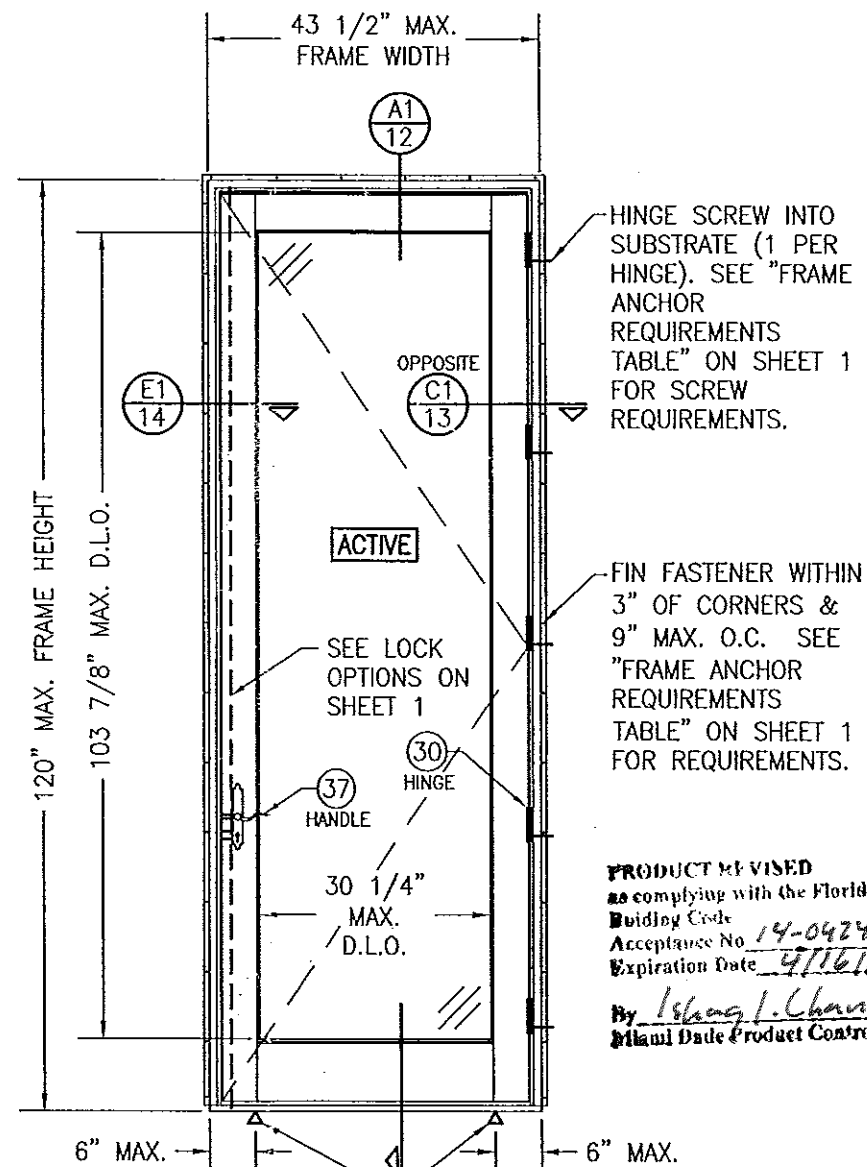
CONSULTANTS  
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)  
7480 150TH COURT NORTH  
PALM BEACH GARDENS, FL 33418  
PHONE: 561-744-3424

CERTIFICATION  
AUG 02 2012  
DRAWING NO. 1748  
SHEET NO. 1 OF 17  
WARREN W. SCHAEFER, P.E.  
P.E. NO. 44135



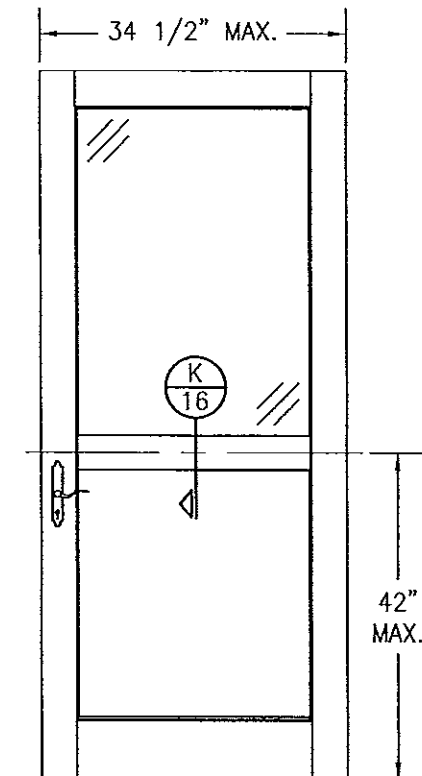
**EXTERIOR ELEVATION:  
DOUBLE RECTANGULAR DOOR**

SCALE: 1/2" = 1'-0"  
(NAIL FIN MOUNT CONDITION)



**EXTERIOR ELEVATION:  
SINGLE RECTANGULAR  
DOOR**

SCALE: 1/2" = 1'-0"  
(NAIL FIN MOUNT CONDITION)



**EXTERIOR ELEVATION:  
PARTIAL RAISED PANEL**

SCALE: 1/2" = 1'-0"  
(SEE DOOR ELEVATIONS FOR DOOR DETAIL  
AND INSTALLATION NOT SHOWN)

**PANEL NOTES:**

1. SINGLE RAISED PANEL CONDITION SHOWN, MORE THAN ONE RAISED PANEL MAY EXIST IN A SINGLE DOOR PANEL WHEN MULTIPLE MID-RAILS ARE USED.
2. PANEL ONLY IS SHOWN. FOR INSTALLATION INTO FRAME, SEE OTHER ELEVATIONS.
3. THESE PANEL CONDITIONS APPLY WITH BOTH OPERABLE & FIXED PANEL DOORS
4. RECTANGULAR CONDITION SHOWN, SHAPED CONDITIONS ALSO APPLY.

**CORNER CONSTRUCTION:**

JAMB TO HEAD JAMB WOOD FRAME: MEMBERS ARE COPE, BUTTED AND JOINED WITH (1)ONE NO. 10 X 3 1/2" GALVANIZED WOOD SCREW THROUGH THE HORIZONTAL FRAME MEMBER INTO THE VERTICAL MEMBERS & (2)TWO NO. 8 X 2 1/2" GALVANIZED WOOD SCREWS THROUGH THE VERTICAL MEMBER INTO THE HORIZONTAL MEMBER. CORNERS ARE SEALED WITH DOW 795.

JAMB TO SILL WOOD FRAME: MEMBERS ARE COPE, BUTTED AND JOINED WITH (2)TWO NO. 8 X 2 1/2" GALVANIZED WOOD SCREW THROUGH THE HORIZONTAL FRAME MEMBER INTO THE VERTICAL MEMBERS & (2)TWO NO. 10 X 3 1/2" GALVANIZED WOOD SCREWS THROUGH THE VERTICAL MEMBER INTO THE HORIZONTAL MEMBERS. CORNERS ARE SEALED WITH DOW 795.

TOP RAIL & MID-RAIL TO STILE: MEMBERS ARE COPE, BUTTED AND JOINED WITH A (1)ONE 3/4" X 2" TENON DOWEL. CORNERS ARE GLUED & SEALED WITH MULTIBOND 2000 WOOD GLUED.

BOTTOM RAIL TO STILE: MEMBERS ARE COPE, BUTTED AND JOINED WITH A (2)TWO 3/4" X 2" TENON DOWEL. CORNERS ARE GLUED & SEALED WITH MULTIBOND 2000 WOOD GLUED.

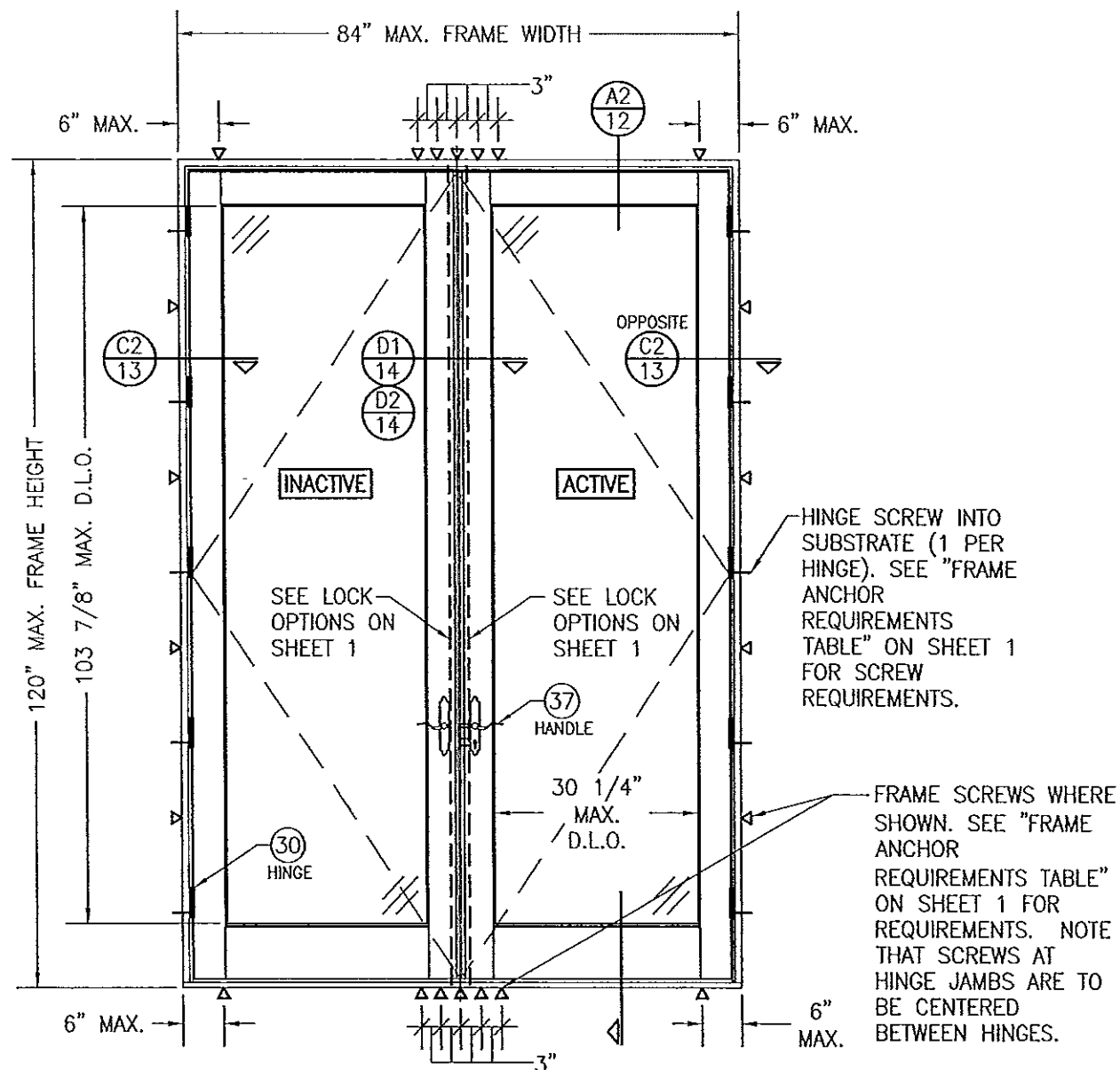
FRAME CLAD: MEMBERS ARE MITERED AND JOINED WITH (2)TWO NO. 6 X 2" SMS SCREWS INTO THE SCREW SPLINE. CORNERS ARE SEALED WITH DOW 795 SILICONE SEALANT.

PANEL CLAD: MEMBERS ARE COPE, BUTTED & SECURED TO THE SASH. CORNERS ARE SEALED WITH DOW 795 SILICONE SEALANT.

SEE ALLOWABLE DESIGN PRESSURE  
TABLES ON SHEET 1 FOR  
ALLOWABLE DESIGN PRESSURES ON  
SINGLE & DOUBLE DOORS.

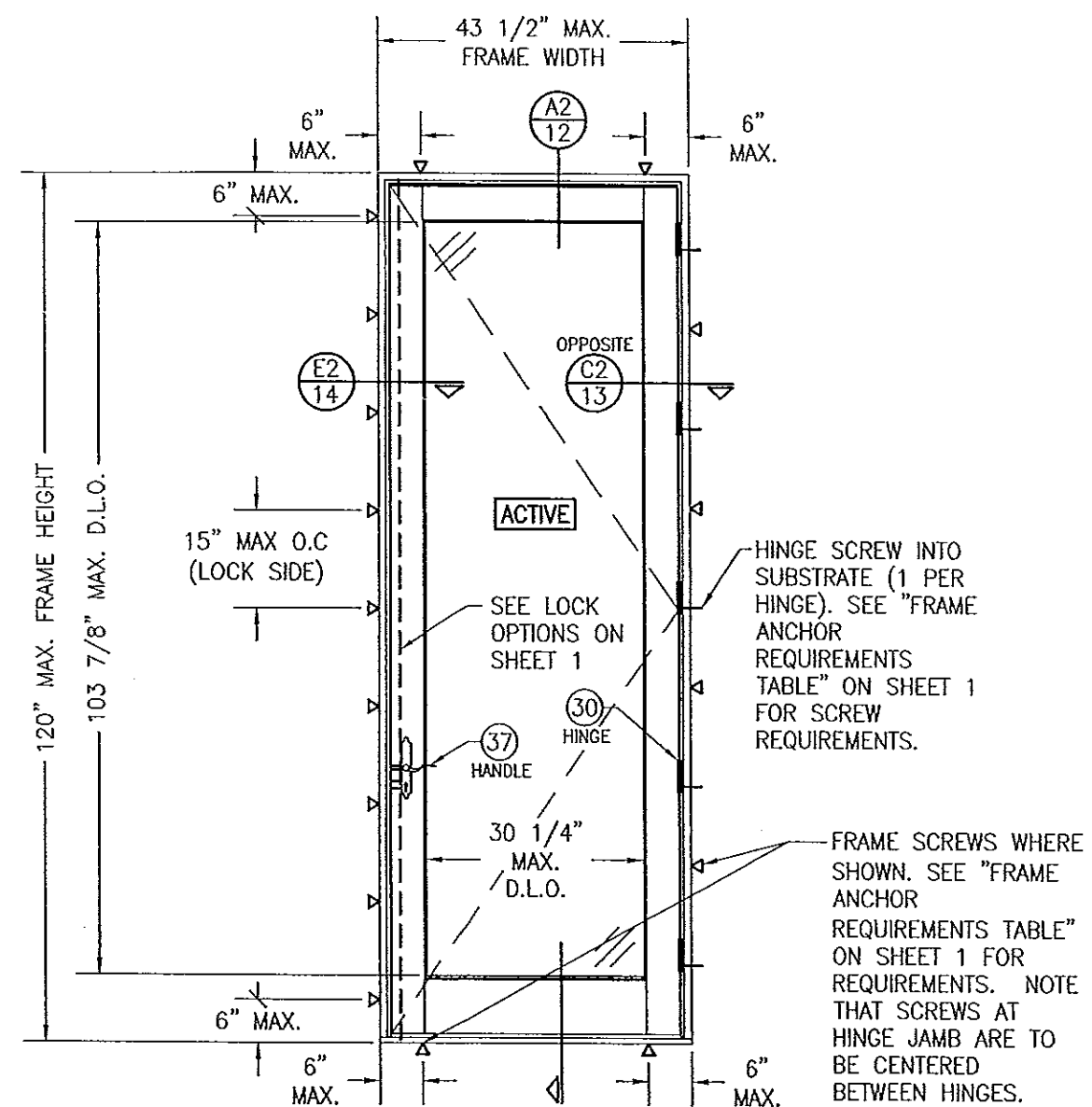
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No. 12-0410-11  
Expiration Date 4/16/16  
By Ishag I. Chant  
Miami Date Product Control

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-24	DATE: 07/09/12
DATE	BY
REVISION	DESCRIPTION
NO.	
DRAWING TITLE ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR	
MANUFACTURER ULTIMATE DOOR OF PALM BEACH, INC. 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION AUG 02 2012 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1748	REV.
SHEET NO. 2	OF 17



**EXTERIOR ELEVATION:  
DOUBLE RECTANGULAR DOOR**  
SCALE: 1/2" = 1'-0"  
(FRAME SCREW MOUNT CONDITION)

SEE ALLOWABLE DESIGN PRESSURE  
TABLES ON SHEET 1 FOR  
ALLOWABLE DESIGN PRESSURES ON  
SINGLE & DOUBLE DOORS.

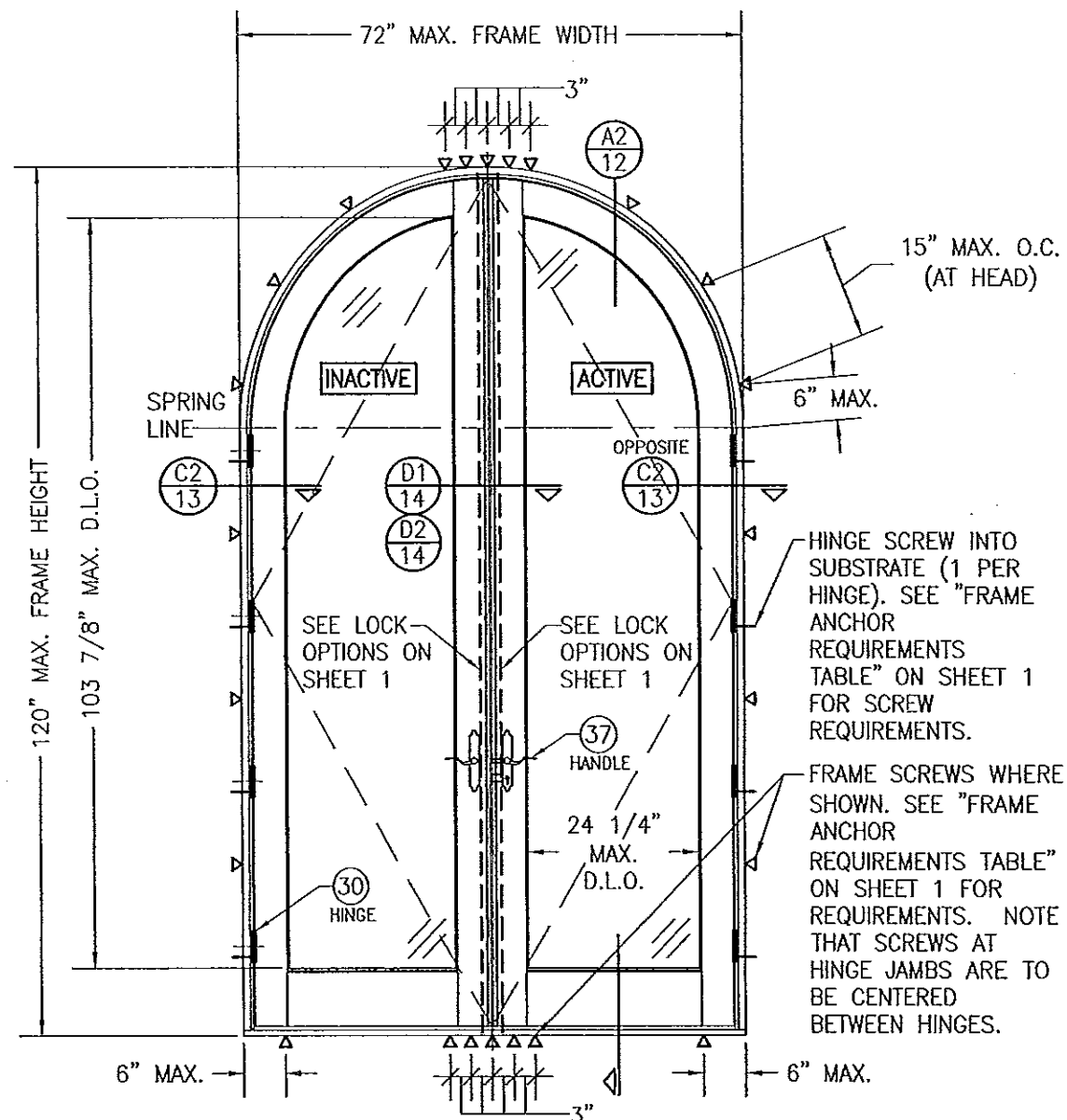


**EXTERIOR ELEVATION:  
SINGLE RECTANGULAR  
DOOR**  
SCALE: 1/2" = 1'-0"  
(FRAME SCREW MOUNT CONDITION)

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No. 14-0424-02  
Expiration Date 4/16/16  
By: [Signature]  
Manual Date Product Control

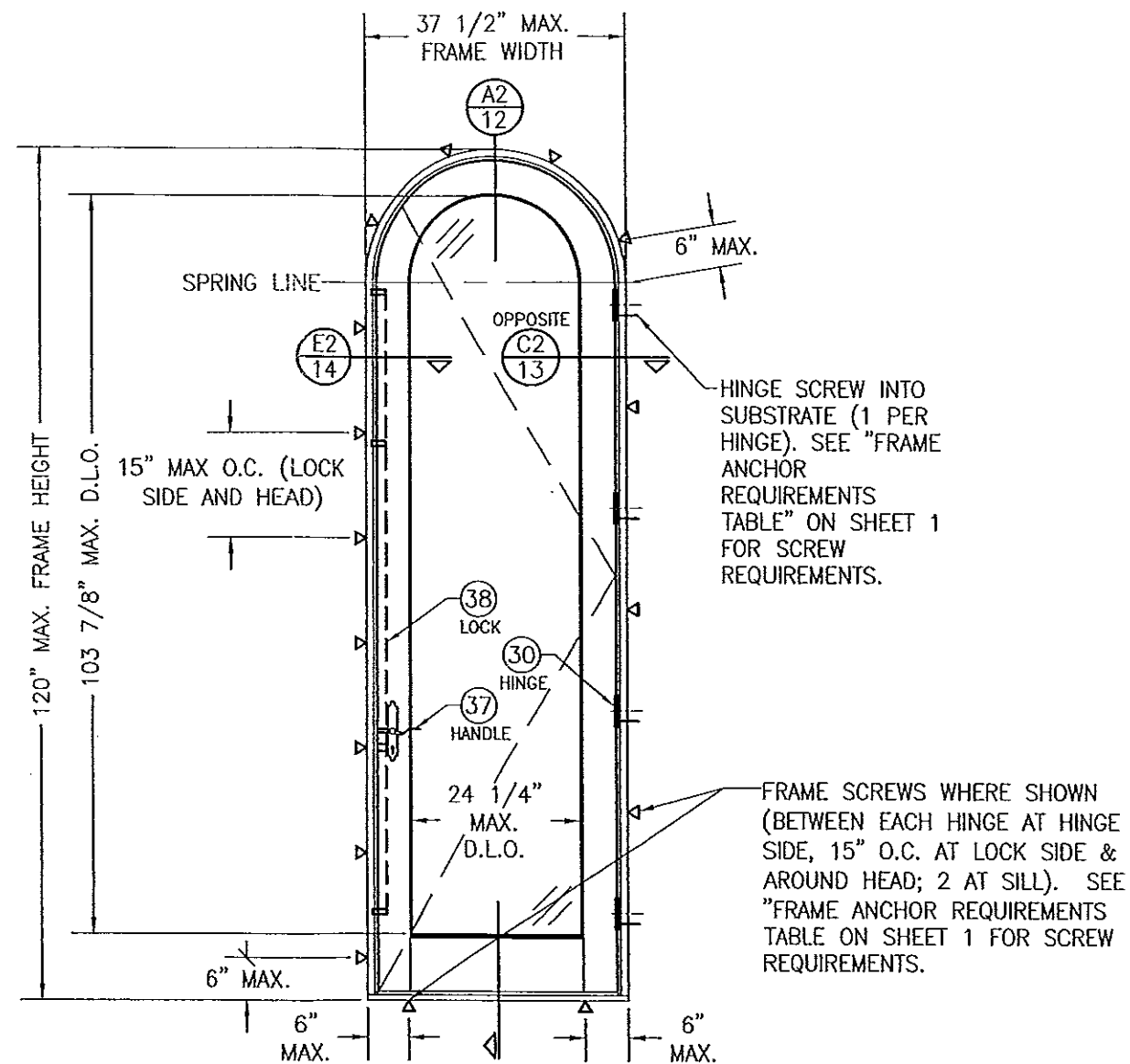
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No. 12-0410-11  
Expiration Date 4/16/16  
By: [Signature]  
Manual Date Product Control

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 07/09/12	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE <b>ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR</b>			
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. (CA 6809)</b> 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER <b>ULTIMATE DOOR OF PALM BEACH, INC.</b> 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828	
CERTIFICATION  AUG 02 2012 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. <b>1748</b>	
SHEET NO. <b>3</b>		REV. <b>OF 17</b>	



**EXTERIOR ELEVATION:  
DOUBLE HALF-ROUND TOP DOOR**  
SCALE: 1/2" = 1'-0"  
(FRAME SCREW MOUNT CONDITION SHOWN. FOR  
NAIL FIN MOUNT, SEE RECTANGULAR DOOR NAIL  
FIN MOUNT ELEVATION)

SEE ALLOWABLE DESIGN PRESSURE  
TABLES ON SHEET 1 FOR  
ALLOWABLE DESIGN PRESSURES ON  
SINGLE & DOUBLE DOORS.



**EXTERIOR ELEVATION:  
SINGLE HALF-ROUND TOP  
DOOR**  
SCALE: 1/2" = 1'-0"  
(FRAME SCREW MOUNT CONDITION  
SHOWN. FOR NAIL FIN MOUNT, SEE  
RECTANGULAR DOOR NAIL FIN  
MOUNT ELEVATION)

**PRODUCT REVISED**  
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Acceptance No. 14-0424.02  
Expiration Date 07/16/17  
By: [Signature]  
Miami Date Product Control

**PRODUCT REVISED**  
to comply with the Florida  
Building Code  
Acceptance No. 12-0410.11  
Expiration Date 07/16/17  
By: [Signature]  
Miami Date Product Control

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=24		DATE: 07/09/12	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER ULTIMATE DOOR OF PALM BEACH, INC. 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION AUG 02 2012 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1748		REV. 	
SHEET NO. 4		OF 17	







# MULLION ALLOWABLE DESIGN PRESSURE (SIDE BY SIDE DOORS)

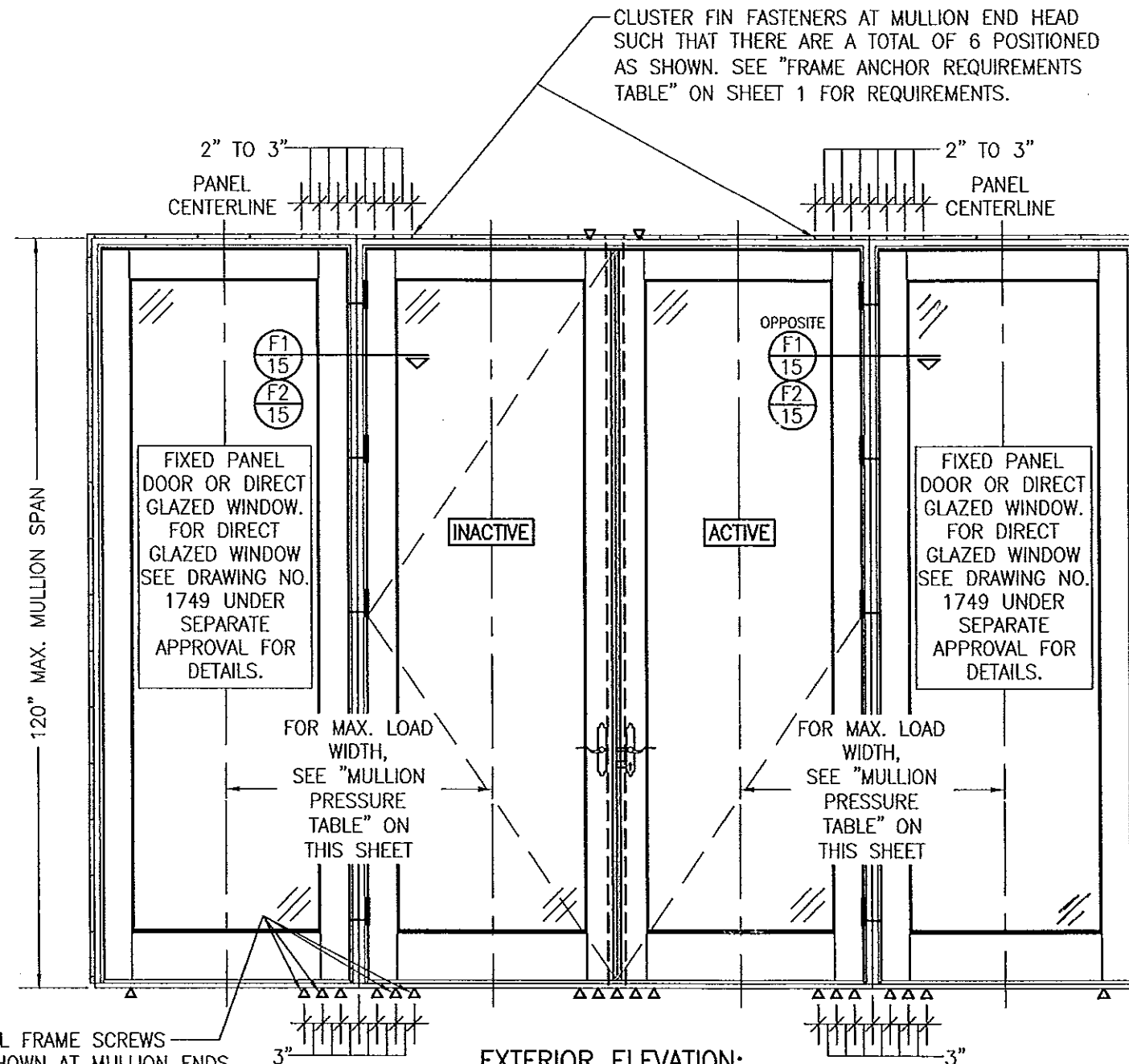
MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (PSF)	
		POS.	NEG.
120	51	41.2	41.2
	45	46.7	46.7
	42	50.0	50.0
	39	53.8	53.8
	36	58.3	58.3
	33	63.6	63.6
	31	65.0	65.0
108	54	43.2	43.2
	51	45.8	45.8
	45	51.9	51.9
	42	55.6	55.6
	39	59.8	59.8
	36	64.8	64.8
	35	65.0	65.0
102	56	44.1	44.1
	51	48.4	48.4
	45	54.9	54.9
	42	58.8	58.8
	39	63.3	63.3
	38	65.0	65.0
96	57	46.1	46.1
	51	51.5	51.5
	45	58.3	58.3
	42	62.5	62.5
	40	65.0	65.0
90	57	49.1	49.1
	51	54.9	54.9
	48	58.3	58.3
	45	62.2	62.2
	43	65.0	65.0
84	57	52.6	52.6
	51	58.8	58.8
	49	61.2	61.2
	46	65.0	65.0
80	57	55.3	55.3
	54	58.3	58.3
	51	61.8	61.8
	49	64.3	64.3
	48	65.0	65.0

NOTES:  
1. SEE ELEVATIONS FOR  
DIMENSIONING OF LOAD WIDTH.  
2. ALLOWABLE UNIT PRESSURE  
SHALL BE THE LESSER OF THE  
PRESSURE SHOWN IN THIS TABLE  
& THAT SPECIFIED FOR THE  
INDIVIDUAL DOOR.

ADDITIONAL FRAME SCREWS  
WHERE SHOWN AT MULLION ENDS.  
SEE "FRAME ANCHOR  
REQUIREMENTS TABLE" ON SHEET  
1 FOR REQUIREMENTS.  
NOTE: OUTER-MOST SCREW ON  
EACH SIDE OF THE MULLION IS  
NOT REQUIRED AT THE SILL WHEN  
LOAD WIDTH IS 33 1/2" OR LESS  
OR WHEN FRAME HEIGHT IS 96"  
OR LESS

## MULTIPLE UNIT NOTES:

- FOR ALL DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS.
- THERE IS NO LIMIT ON THE NUMBER OF DOORS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE DOORS & THEIR MULLIONS.
- OXXO UNIT IS SHOWN. ALL OTHER FIXED/OPERABLE COMBINATIONS ALSO APPLY WITH THE MULLION CONDITIONS SHOWN.
- INDIVIDUAL DOOR SIZES SHALL BE RESTRICTED AS SPECIFIED IN THE SINGLE UNIT ELEVATION.



## EXTERIOR ELEVATION: DOUBLE DOORS WITH SIDE LIGHTS

SCALE: 1/2" = 1'-0"  
(NAIL FIN MOUNT CONDITION)

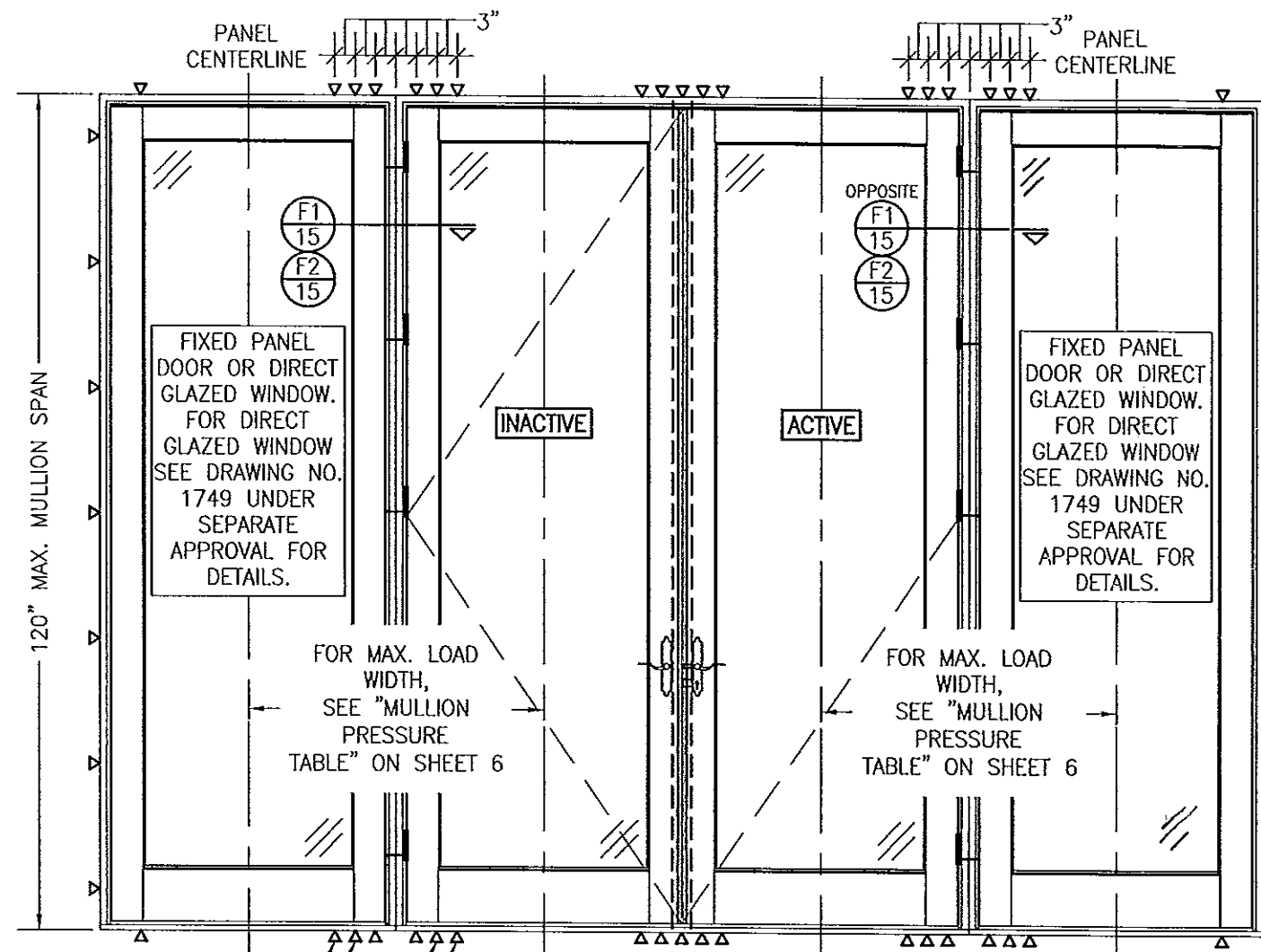
(RECTANGULAR DOORS SHOWN, SHAPED DOORS ALSO APPLY. SEE  
"APPROVED SHAPES" TABLE ON SHEET 1)

SEE SINGLE UNIT  
ELEVATIONS FOR  
FIN FASTENER  
REQUIREMENTS &  
POSITIONS  
AROUND EACH  
UNIT

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as complying with the Florida  
Building Code  
Acceptance No. 12-0410.11  
Expiration Date 4/16/16  
By: [Signature]  
Miami Date Product Control

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 07/09/12	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER ULTIMATE DOOR OF PALM BEACH, INC. 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828	
CERTIFICATION AUG 02 2012 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1748	
SHEET NO. 6		REV. 17	



ADDITIONAL FRAME SCREWS WHERE SHOWN AT MULLION ENDS. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS (TYP. HEAD & SILL).  
NOTE: OUTER-MOST SCREW ON EACH SIDE OF THE MULLION IS NOT REQUIRED WHEN LOAD WIDTH IS 33 1/2" OR LESS OR WHEN FRAME HEIGHT IS 96" OR LESS

# EXTERIOR ELEVATION: DOUBLE DOORS WITH SIDE LIGHTS

SCALE: 1/2" = 1'-0"  
(FRAME SCREW MOUNT CONDITION)  
(RECTANGULAR DOORS SHOWN, SHAPED DOORS ALSO APPLY. SEE "APPROVED SHAPES" TABLE ON SHEET 1)

SEE "MULLION ALLOWABLE DESIGN PRESSURE" TABLE ON SHEET 6 FOR ALLOWABLE DESIGN PRESSURES ON MULLED UNIT

## MULTIPLE UNIT NOTES:

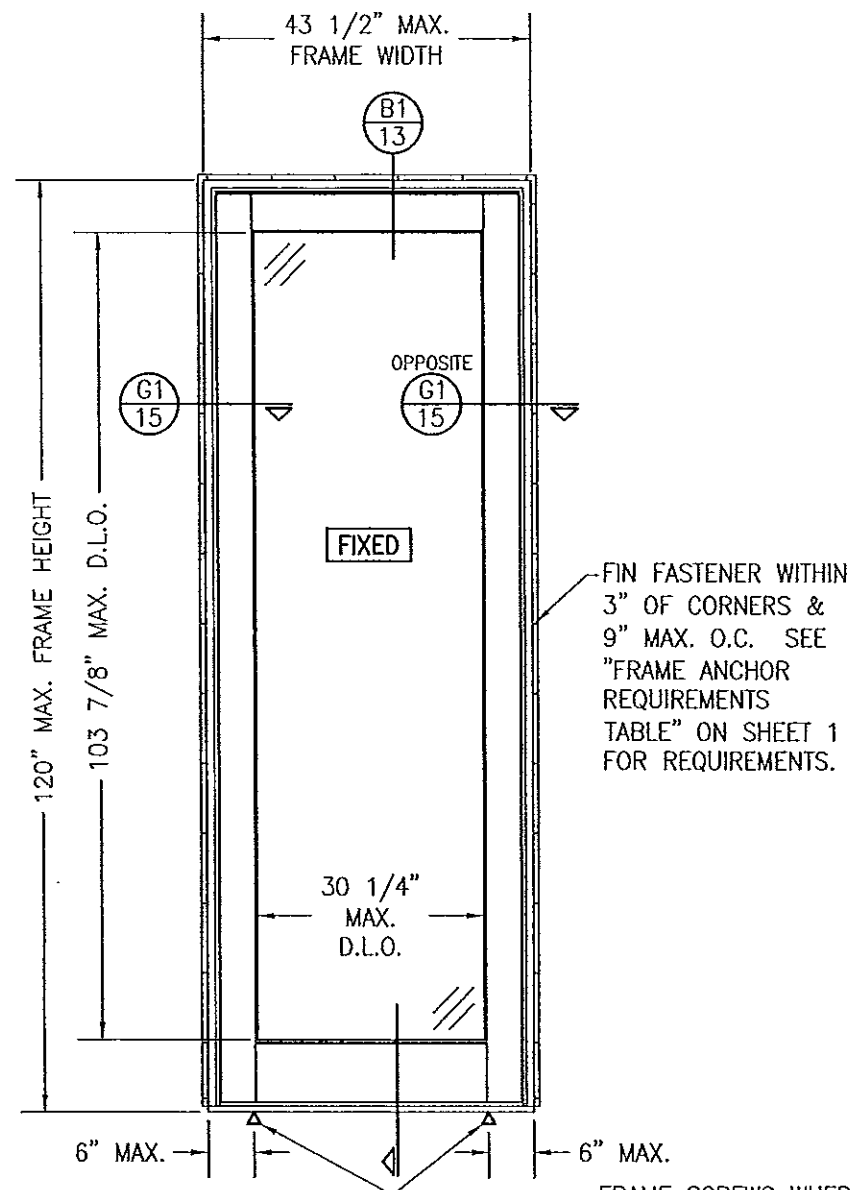
1. FOR ALL DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS.
2. THERE IS NO LIMIT ON THE NUMBER OF DOORS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE DOORS & THEIR MULLIONS.
3. OXO UNIT IS SHOWN. ALL OTHER FIXED/OPERABLE COMBINATIONS ALSO APPLY WITH THE MULLION CONDITIONS SHOWN.
4. INDIVIDUAL DOOR SIZES SHALL BE RESTRICTED AS SPECIFIED IN THE SINGLE UNIT ELEVATION.

SEE SINGLE UNIT ELEVATIONS FOR FRAME ANCHOR REQUIREMENTS & POSITIONS AROUND EACH UNIT

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as complying with the Florida  
Building Code  
Acceptance No. 12-041611  
Expiration Date 4/16/15  
By: [Signature]  
Miami Dade Product Control

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 07/09/12	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER ULTIMATE DOOR OF PALM BEACH, INC. 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828	
CERTIFICATION AUG 02 2012 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1748 SHEET NO. 7 OF 17	

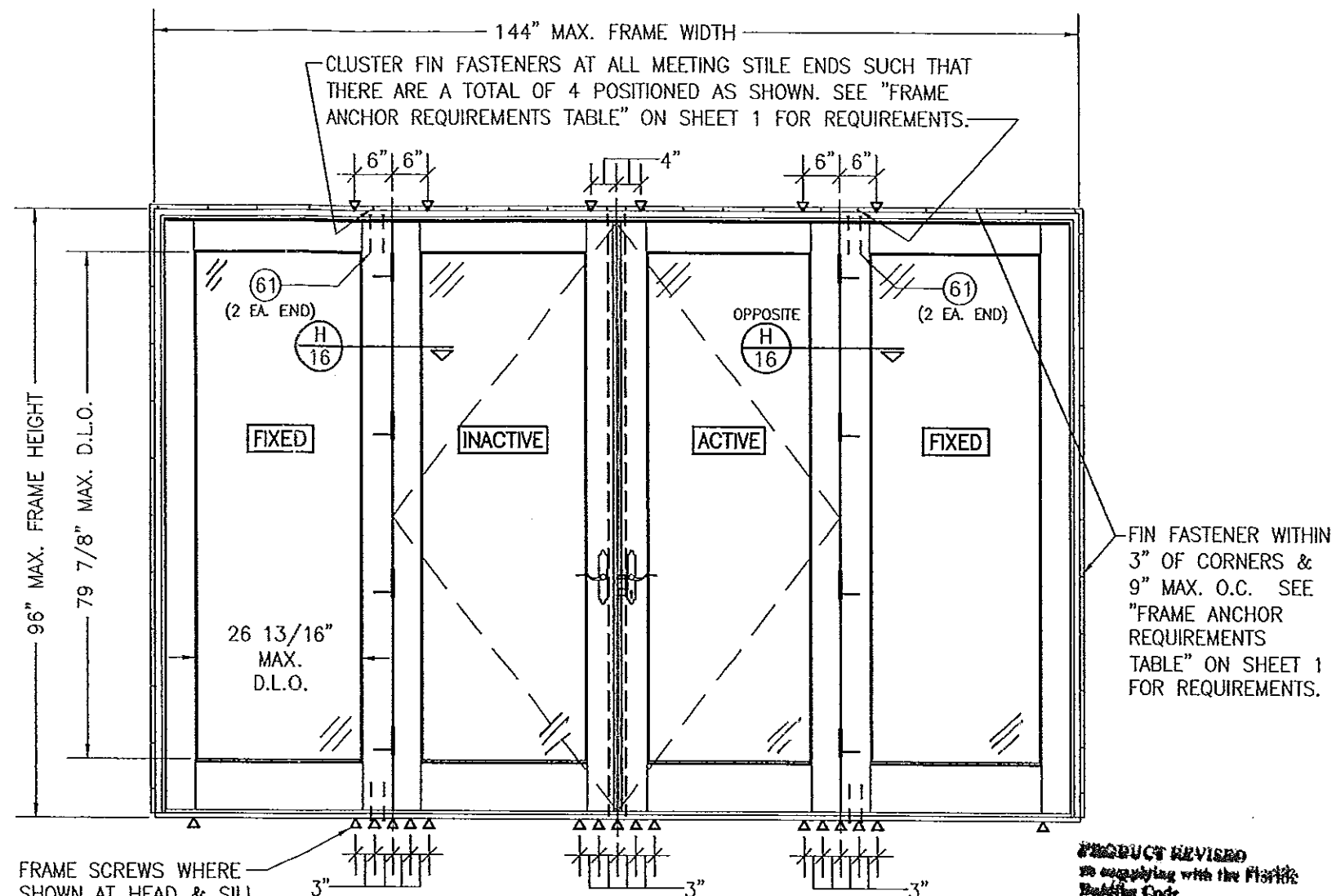


**EXTERIOR ELEVATION:  
SINGLE FIXED PANEL DOOR**

SCALE: 1/2" = 1'-0"  
(NAIL FIN MOUNT CONDITION)

RECTANGULAR FIXED PANEL SHOWN. SHAPE TOP CONDITION ALSO APPLIES WITH ANCHORING ALONG THE FRAME CIRCUMFERENCE BEING THE SAME AS SPECIFIED FOR A STRAIGHT FRAME.

SEE ALLOWABLE DESIGN PRESSURE TABLES ON SHEET 1 FOR ALLOWABLE DESIGN PRESSURES ON FIXED PANEL DOORS.



**EXTERIOR ELEVATION:  
QUAD PANEL DOOR WITH FIXED ASTRAGALS  
IN ONE FRAME**

SCALE: 1/2" = 1'-0"  
(NAIL FIN MOUNT CONDITION)

ALLOWABLE DESIGN PRESSURE  
(DOORS WITH FIXED ASTRAGALS)

+48/-59 PSF

**FIXED ASTRIGAL UNIT NOTES:**

1. OXXO UNIT IS SHOWN. OX, XO, OXO, XXO & OXX UNITS ALSO APPLY.
2. FOR DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS.

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Acceptance No. 12-0410-11  
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to comply with the Florida  
Building Code  
Acceptance No. 14-0424-02  
Expiration Date 4/16/16  
By: [Signature]  
Miami Dade Product Control

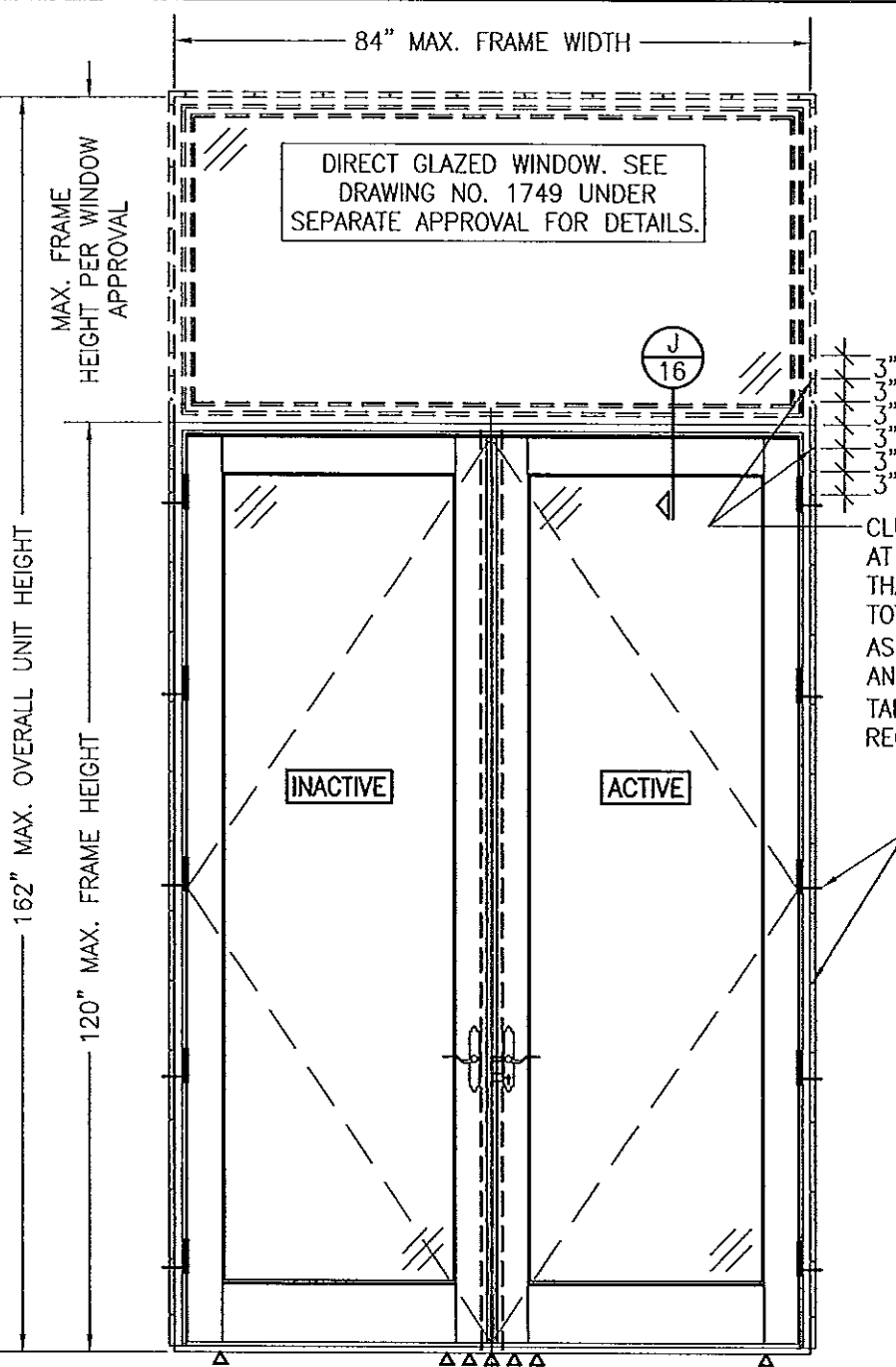
DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-24		DATE: 07/09/12	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER ULTIMATE DOOR OF PALM BEACH, INC. 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828	
CERTIFICATION AUG 02 2012 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1748	
SHEET NO. 8		REV. OF 17	



MULLION ALLOWABLE  
DESIGN PRESSURE  
(DOUBLE DOORS WITH TRANSOM)

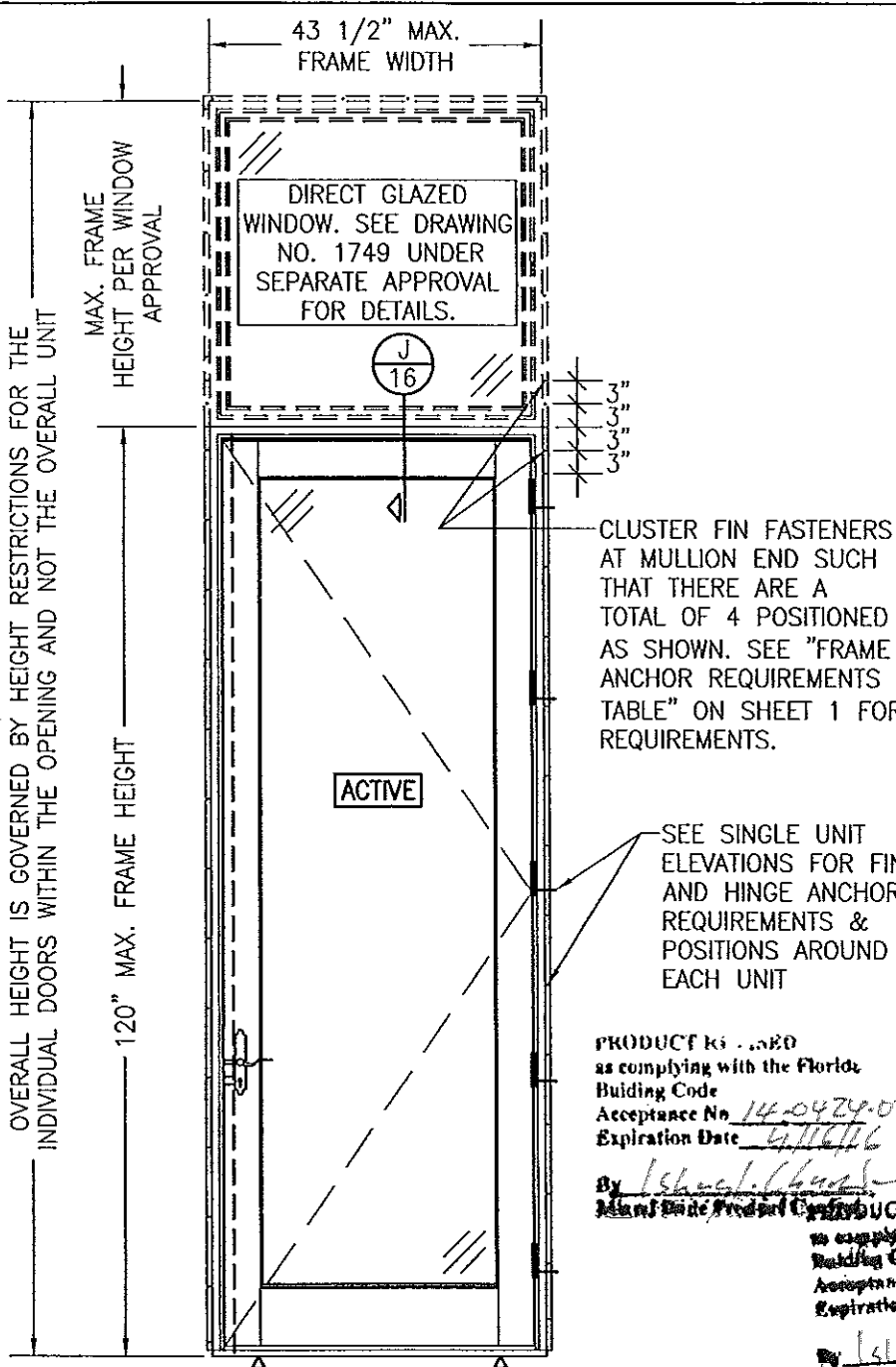
MAXIMUM FRAME WIDTH (IN.)	MAXIMUM OVERALL HEIGHT (IN.)	ALLOWABLE PRESSURE (PSF)	
		POS.	NEG.
84	162	50.0	50.0
	150	54.0	54.0
	144	56.3	56.3
	138	58.7	58.7
	132	61.4	61.4
	126	64.3	64.3
	124	65.0	65.0
78	162	53.8	53.8
	150	58.2	58.2
	144	60.6	60.6
	138	63.2	63.2
75	162	56.0	56.0
	156	58.2	58.2
	150	60.5	60.5
	144	63.0	63.0
72	162	58.3	58.3
	156	60.6	60.6
	150	63.0	63.0
	145	65.0	65.0
66	162	63.6	63.6
	158	65.0	65.0
60	162	65.0	65.0

NOTES:  
1. ALLOWABLE UNIT PRESSURE SHALL BE THE LESSER OF THE PRESSURE SHOWN IN THIS TABLE & THAT SPECIFIED FOR THE INDIVIDUAL WINDOW OR DOOR.



EXTERIOR ELEVATION:  
DOUBLE DOORS WITH TRANSOM

SCALE: 1/2" = 1'-0"  
(NAIL FIN MOUNT CONDITION)  
(FOR DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS)



EXTERIOR ELEVATION:  
SINGLE DOOR WITH TRANSOM

SCALE: 1/2" = 1'-0"  
(NAIL FIN MOUNT CONDITION)  
(FOR DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS)

MULLION ALLOWABLE  
DESIGN PRESSURE  
(SINGLE DOORS WITH TRANSOM)

ALLOWABLE PRESSURE SHALL BE GOVERNED BY THE ALLOWABLE PRESSURE ON THE SINGLE DOOR. SEE SHEET 1 FOR ALLOWABLE PRESSURE ON SINGLE DOORS.

DRAWN BY:  
W.R.M.

CHECKED BY:  
W.W.S.

PLOT:  
1=24

DATE:  
07/09/12

NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE  
ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR

CONSULTANTS  
W. W. SCHAEFER ENGINEERING  
& CONSULTING, P.A. (CA 6809)

7480 150TH COURT NORTH  
PALM BEACH GARDENS, FL 33418  
PHONE: 561-744-3424

MANUFACTURER  
ULTIMATE DOOR OF PALM BEACH, INC.  
2800 2ND AVE. NORTH  
LAKE WORTH, FL 33461  
561-642-2828

CERTIFICATION

AUG 02 2012

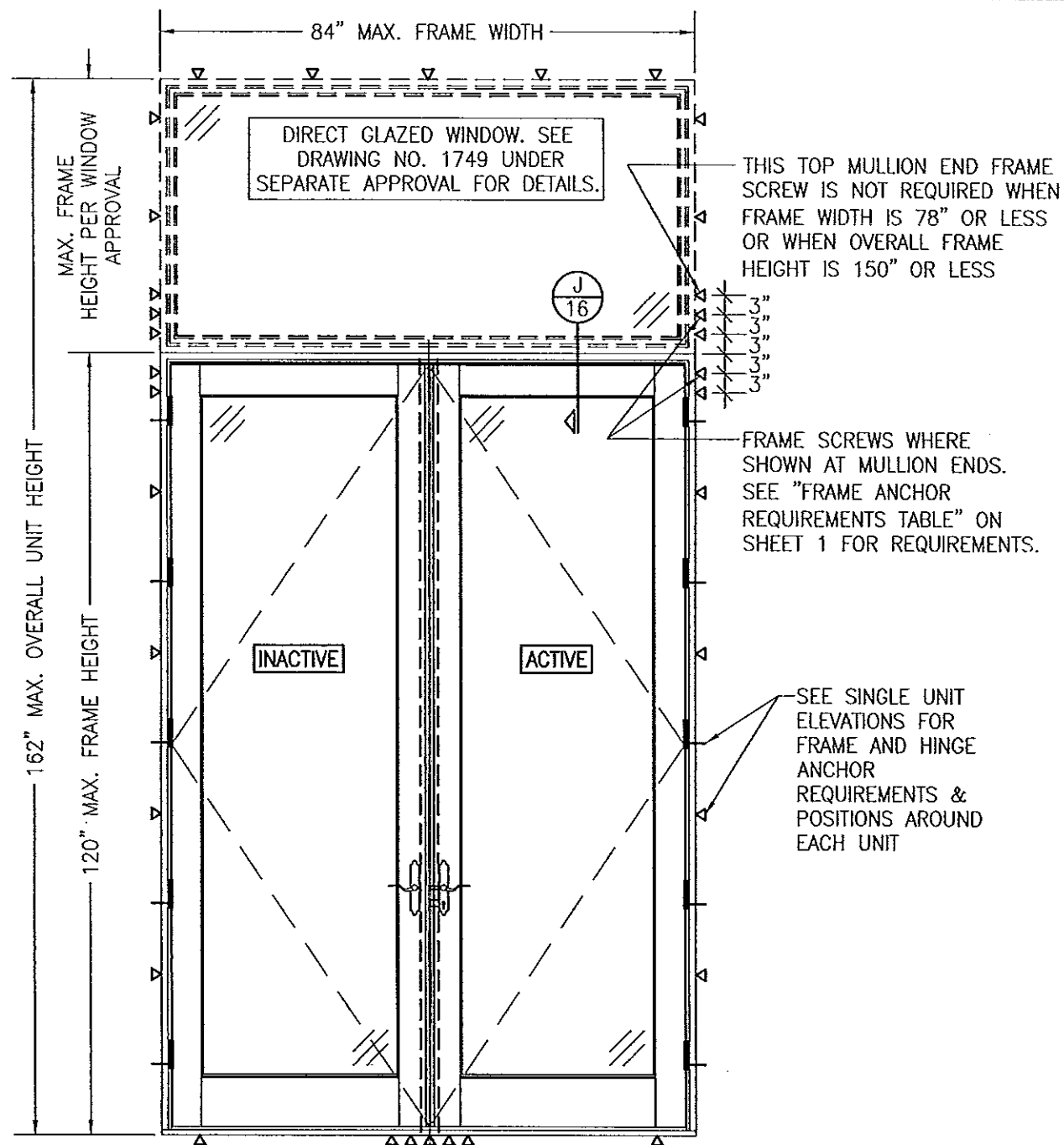
WARREN W. SCHAEFER, P.E.  
P.E. NO. 44135

DRAWING NO.  
1748

REV.

SHEET NO.  
10

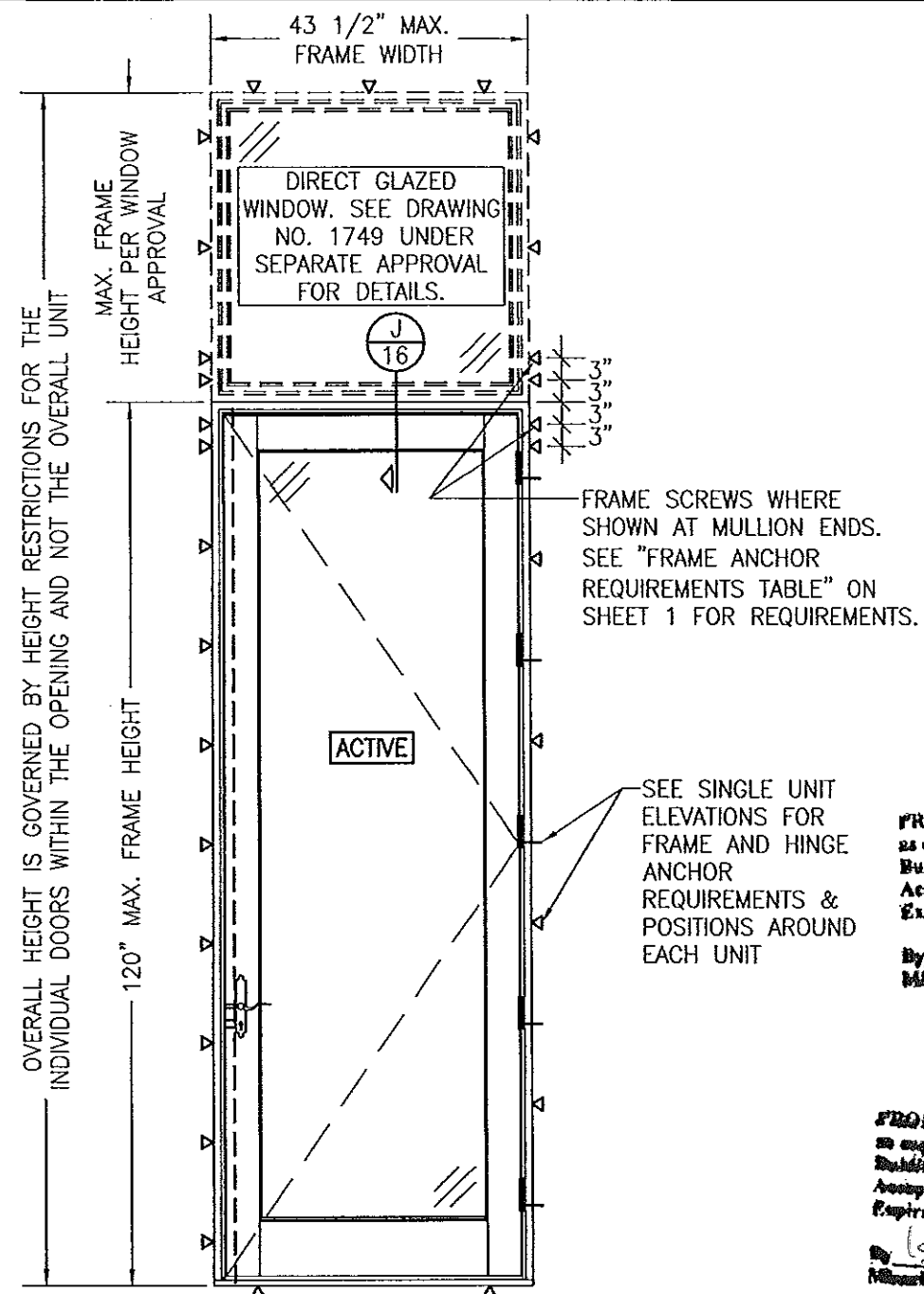
OF  
17



**EXTERIOR ELEVATION:  
DOUBLE DOORS WITH TRANSOM**

SCALE: 1/2" = 1'-0"  
(FRAME SCREW MOUNT CONDITION)  
(FOR DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS)

SEE "MULLION ALLOWABLE DESIGN  
PRESSURE" TABLE ON SHEET 10  
FOR ALLOWABLE DESIGN  
PRESSURES ON TRANSOM UNIT



**EXTERIOR ELEVATION:  
SINGLE DOOR WITH TRANSOM**

SCALE: 1/2" = 1'-0"  
(FRAME SCREW MOUNT CONDITION)  
(FOR DETAIL NOT SHOWN, SEE INDIVIDUAL UNIT ELEVATIONS)

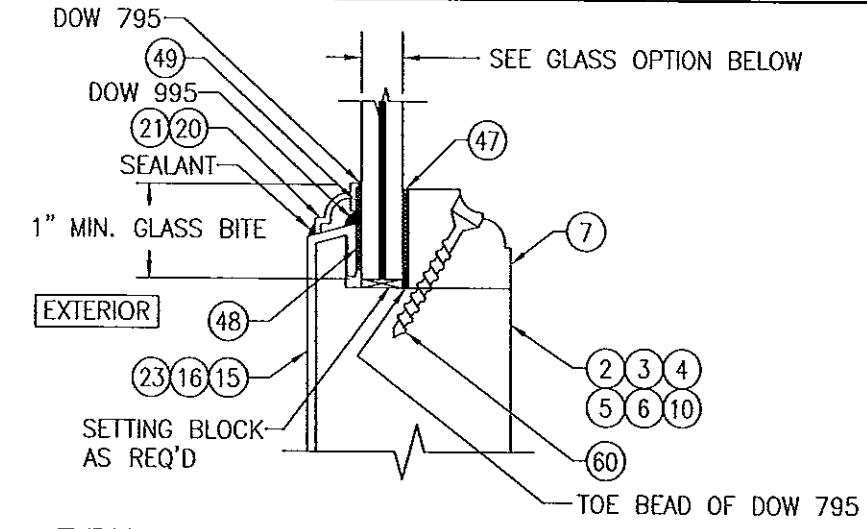
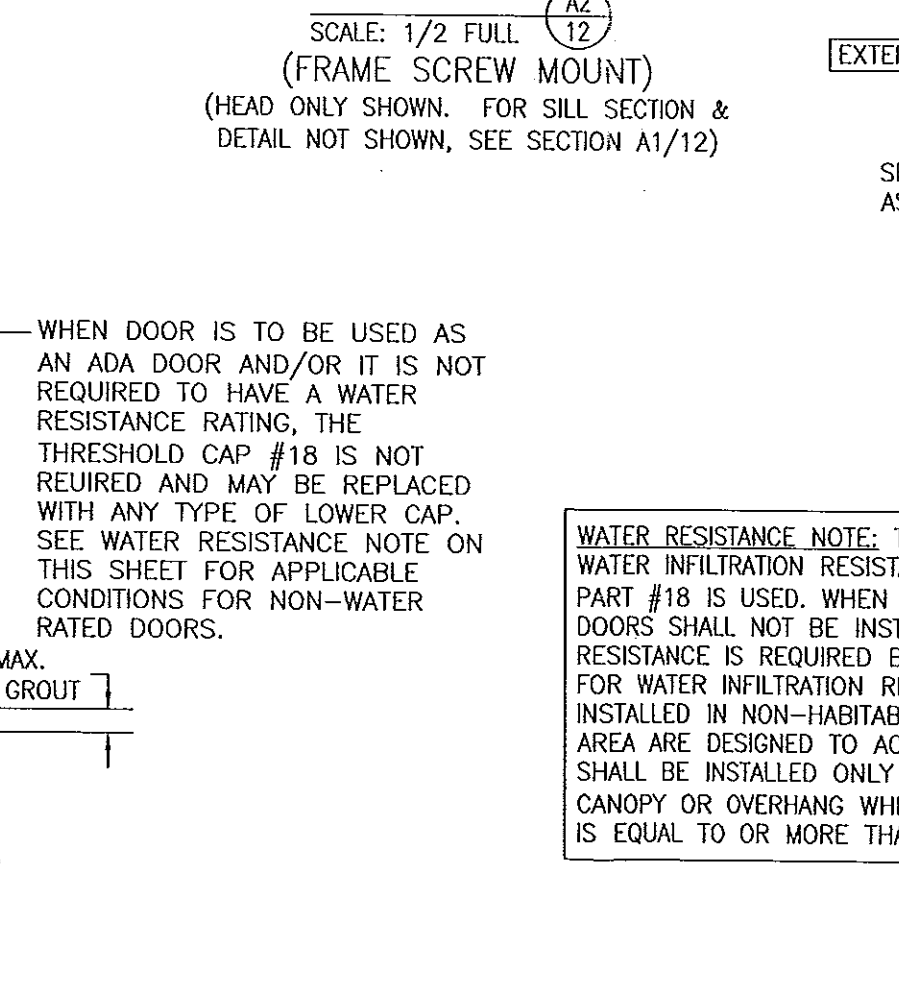
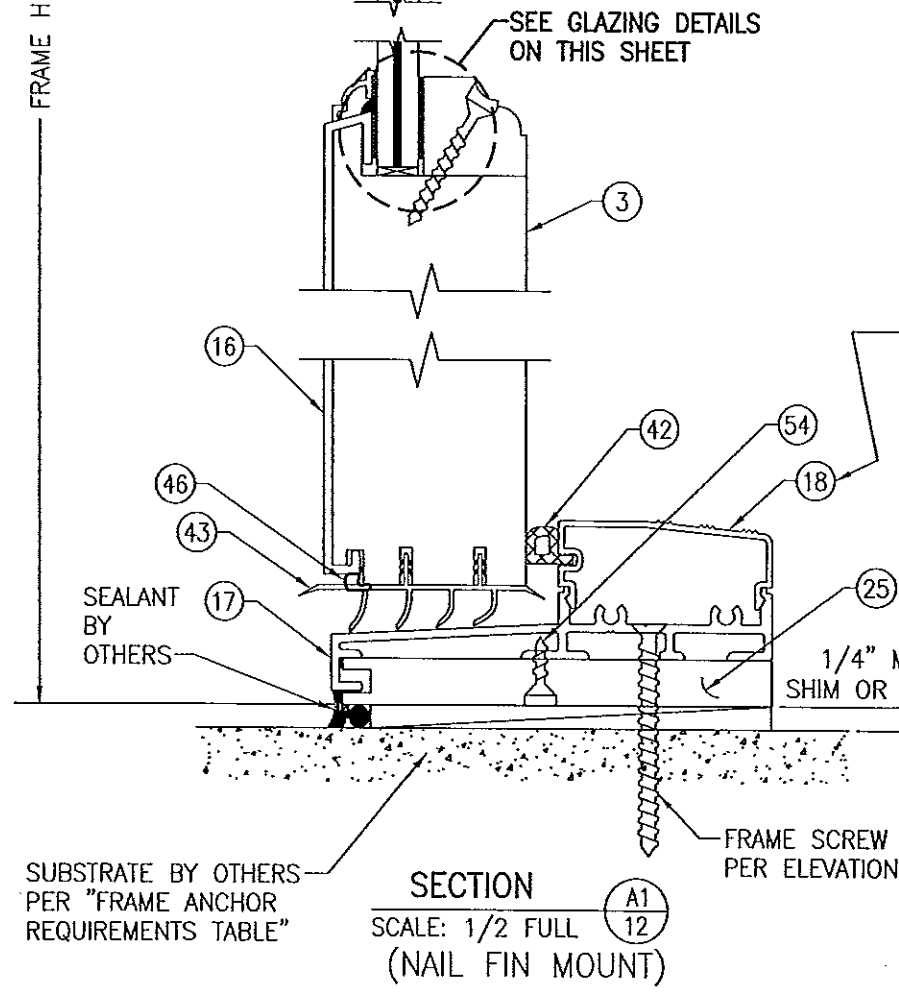
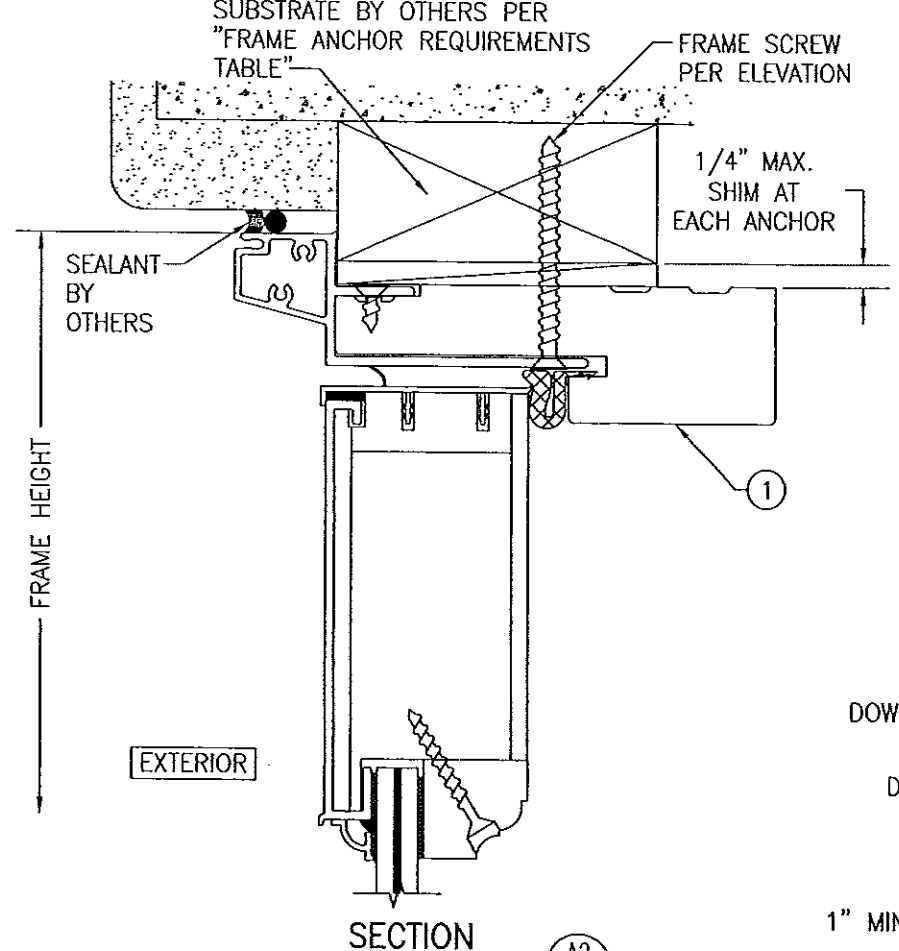
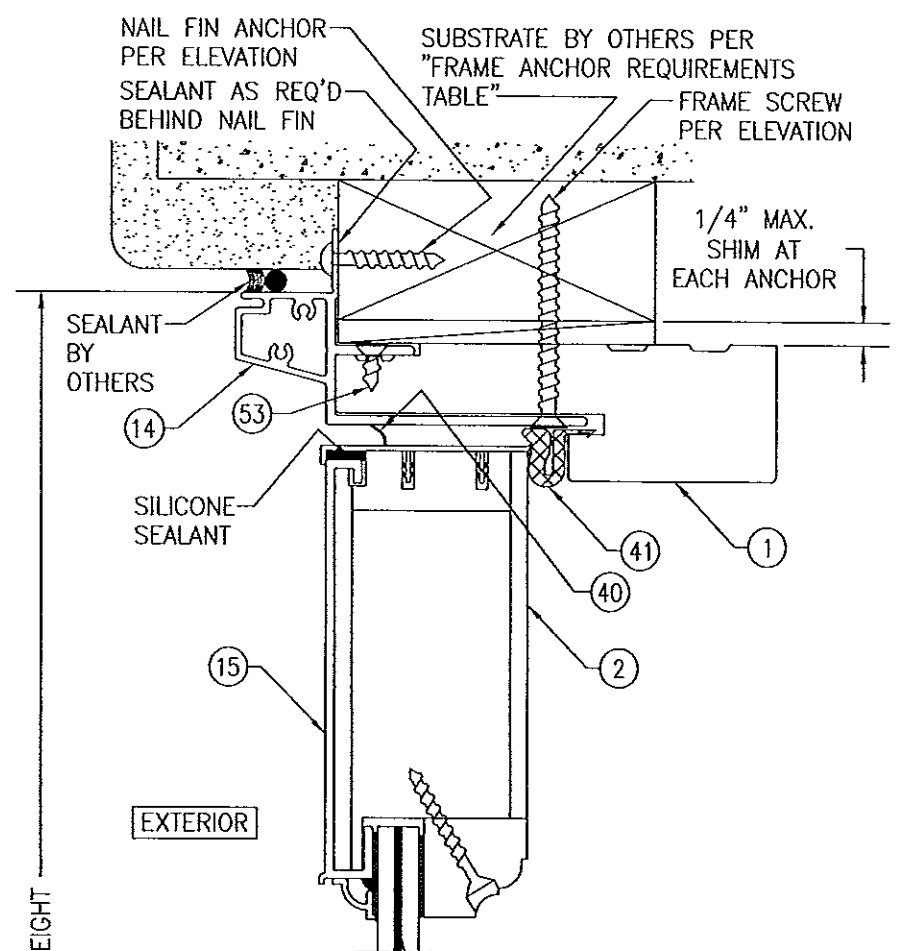
**MULLION ALLOWABLE  
DESIGN PRESSURE  
(SINGLE DOORS WITH TRANSOM)**

ALLOWABLE PRESSURE SHALL BE  
GOVERNED BY THE ALLOWABLE  
PRESSURE ON THE SINGLE DOOR.  
SEE SHEET 1 FOR ALLOWABLE  
PRESSURE ON SINGLE DOORS.

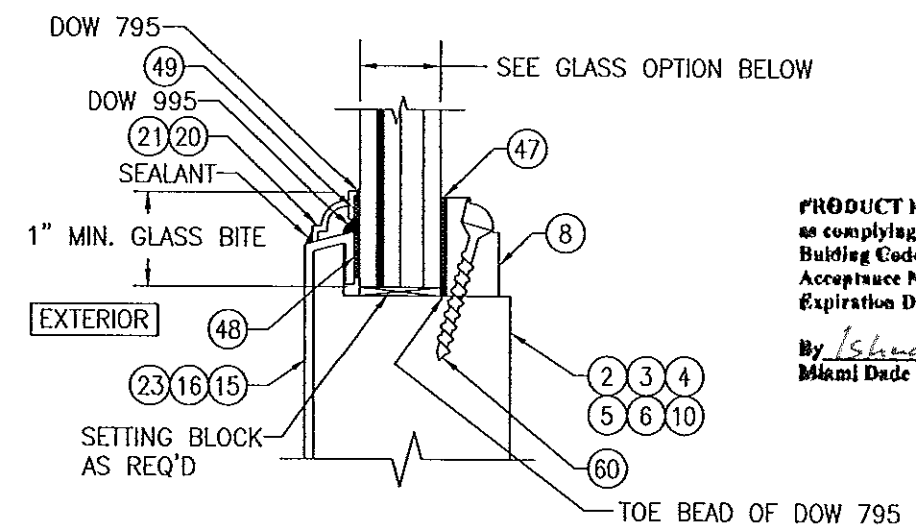
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No. 14-0424.02  
Expiration Date 2/16/16  
By: [Signature]  
Miami Dade Product Control

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By: [Signature]  
Miami Dade Product Control

DRAWN BY: W.R.M.		CHECKED BY: W.S.S.	
PLOT: 1-24		DATE: 07/09/12	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		MANUFACTURER ULTIMATE DOOR OF PALM BEACH, INC. 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828	
CERTIFICATION AUG 02 2012 WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1748 SHEET NO. 11 OF 17	



**TYPICAL MONOLITHIC GLASS GLAZING DETAIL**  
 OPTION 1: 7/16" LAMINATED GLASS (3/16" AN./0.090 DUPONT SG/3/16" AN.)




**TYPICAL I.G. GLAZING DETAIL**  
 OPTION 1: 7/8" I.G. LAMINATED GLASS (3/16" AN./0.090 DUPONT SG/3/16" AN. EXTERIOR/1/4" AIR SPACE/3/16" TEMP. INTERIOR)

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 as complying with the Florida Building Code  
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 as complying with the Florida Building Code  
 Acceptance No. 12-0410.11  
 Expiration Date 4/16/16  
 By: [Signature]  
 Miami Dade Product Control

**WATER RESISTANCE NOTE:** THESE DOORS ARE APPROVED FOR WATER INFILTRATION RESISTANCE ONLY WHEN THRESHOLD CAP PART #18 IS USED. WHEN PART #18 IS NOT USED, THESE DOORS SHALL NOT BE INSTALLED WHERE WATER INFILTRATION RESISTANCE IS REQUIRED BY THE DOOR. WHEN NOT RATED FOR WATER INFILTRATION RESISTANCE, UNLESS UNITS ARE INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT & THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION, UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG WHERE-BY THE OVERHANG(OH) RATIO IS EQUAL TO OR MORE THAN 1.0 PER FBC SECTION 2411.3.

DRAWING NO.	1748		REV.
	SHEET NO.		
12		OF	17

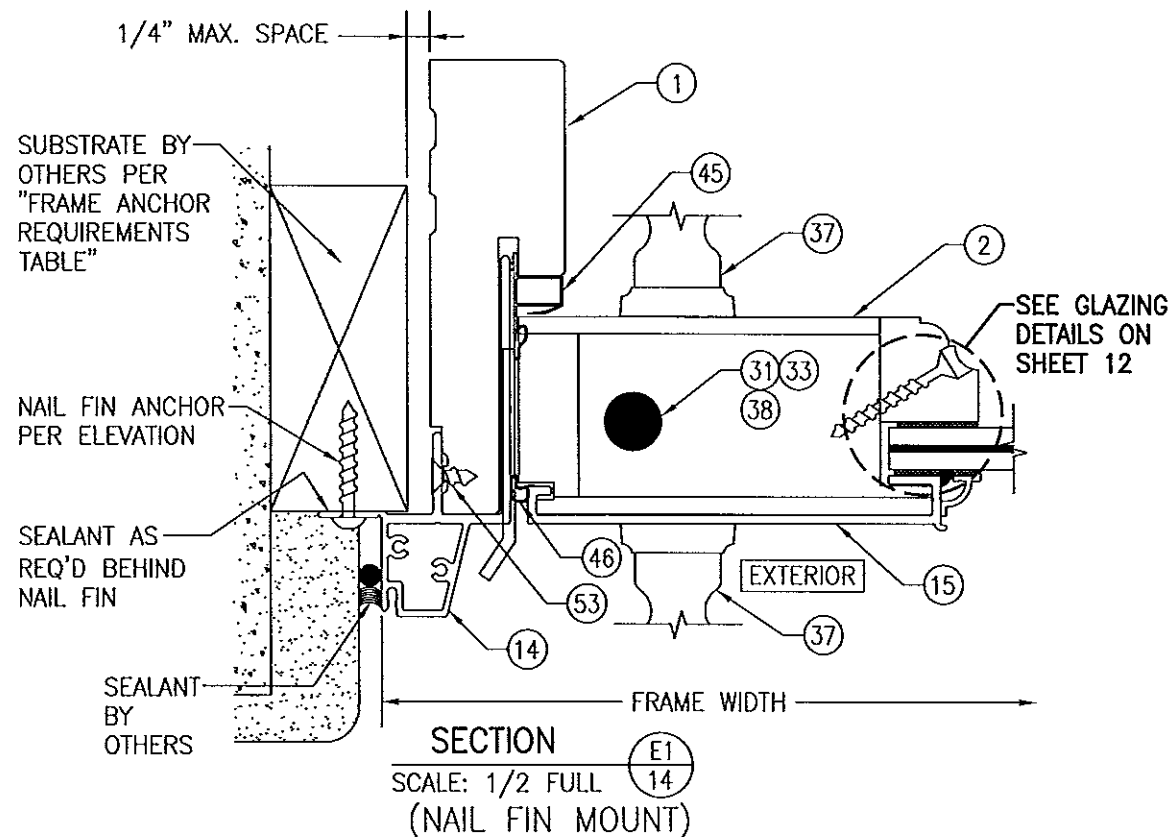
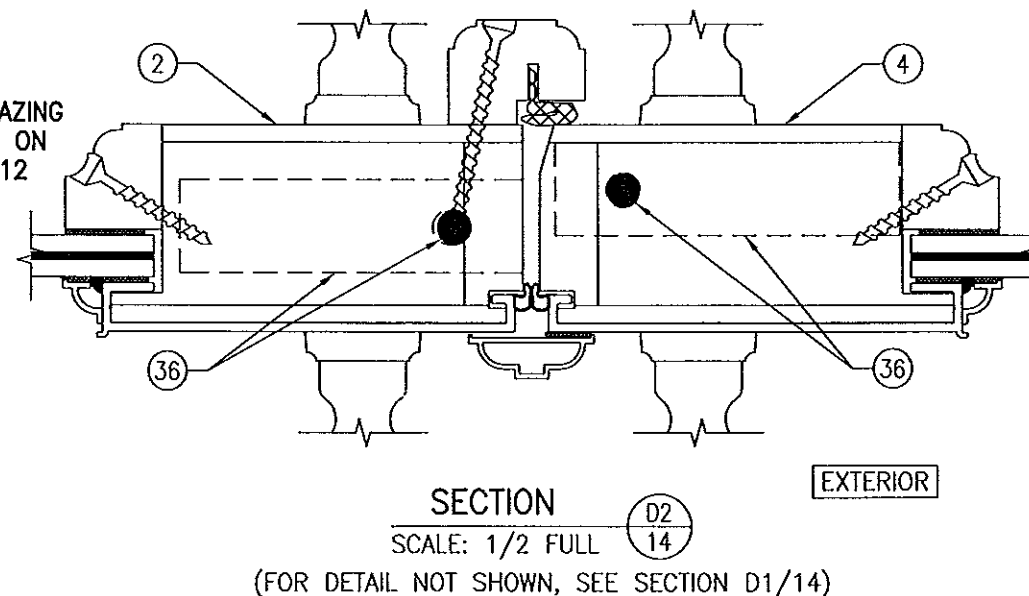
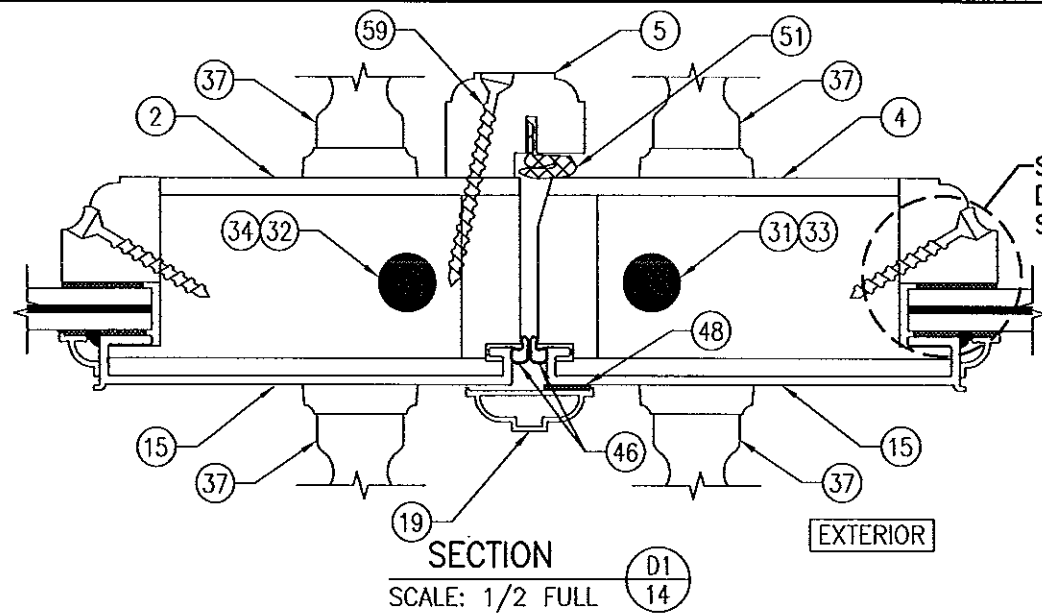
CERTIFICATION	 AUG 02 2012	WARREN W. SCHAEFER, P.E. P.E. NO. 44135

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CONSULTANTS	W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
MANUFACTURER	ULTIMATE DOOR OF PALM BEACH, INC. 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828	

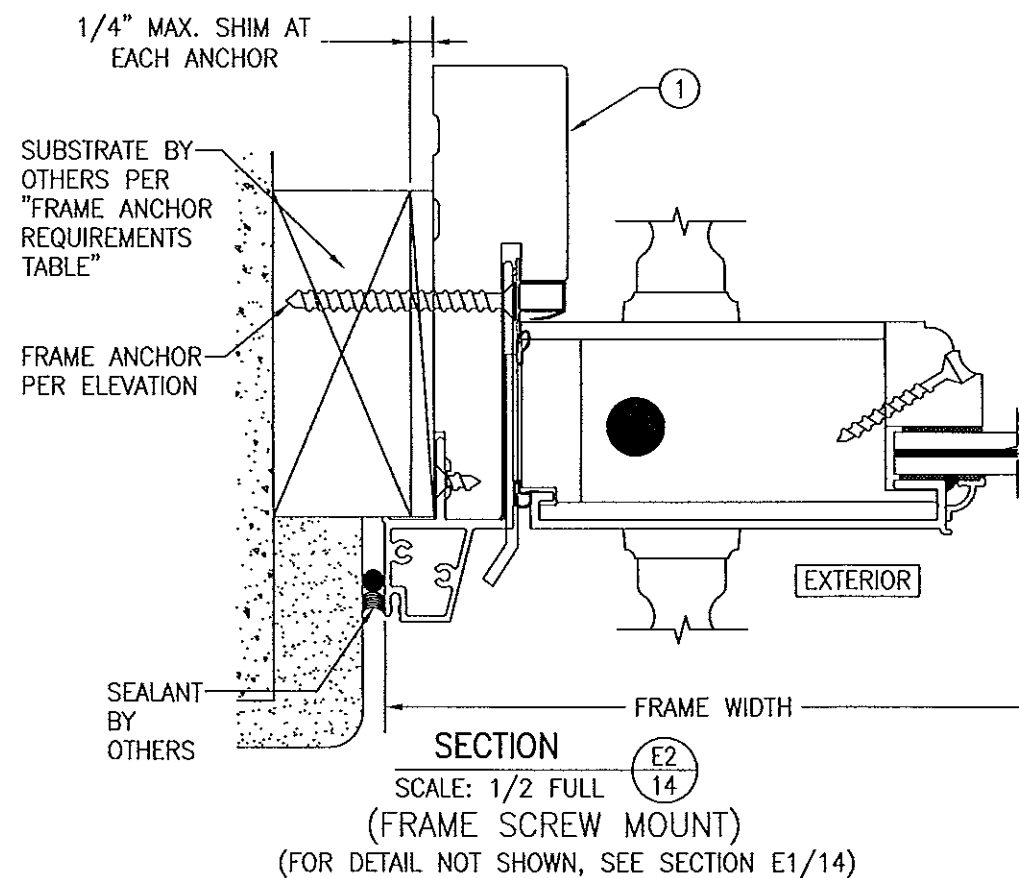
DRAWN BY:	W.R.M.	CHECKED BY:	W.W.S.	
PLOT:	1=2	DATE:	07/09/12	
NO.		REVISION DESCRIPTION	BY	DATE





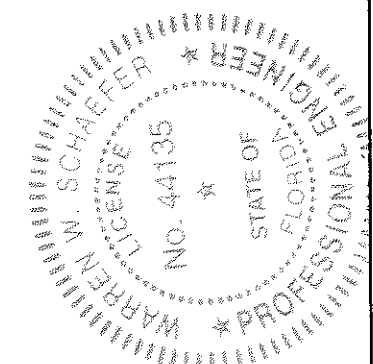


MULTI-POINT LOCK SYSTEM SHOWN.  
FLUSH BOLTS PART #36 WITH DEAD BOLT  
PART #35 ALSO APPLIES FOR USE WITH  
SINGLE RECTANGULAR DOORS.

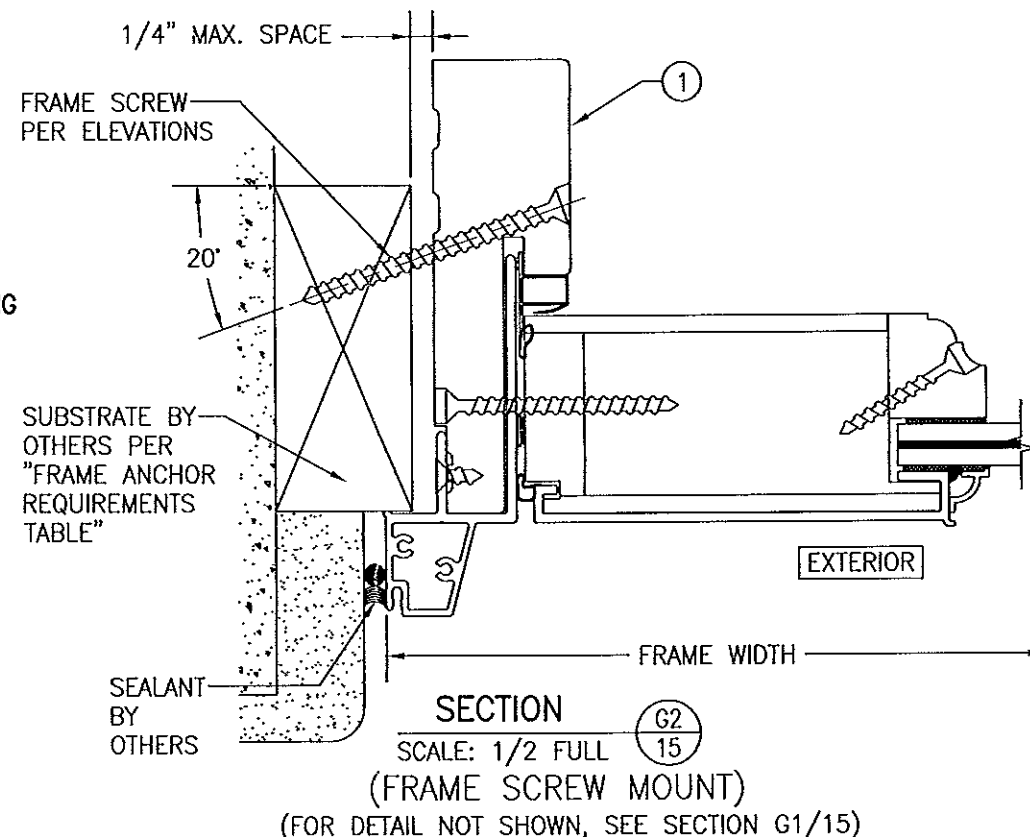
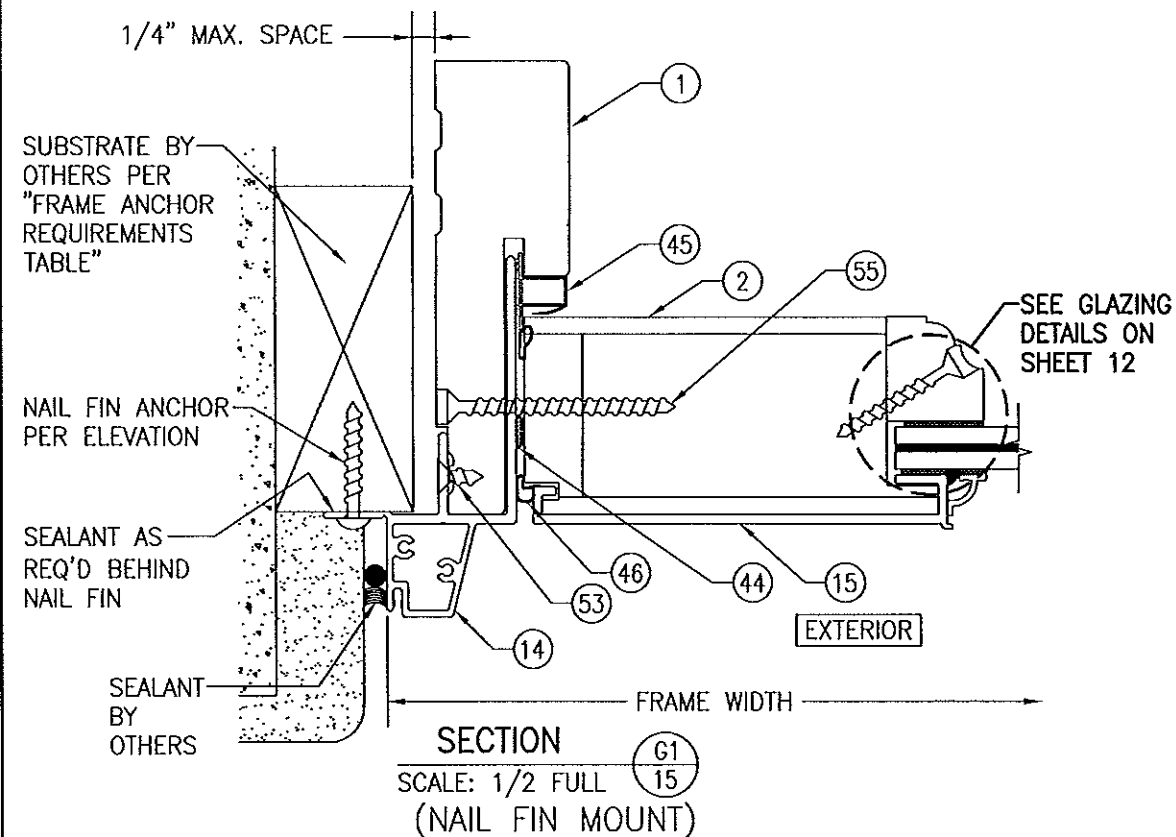
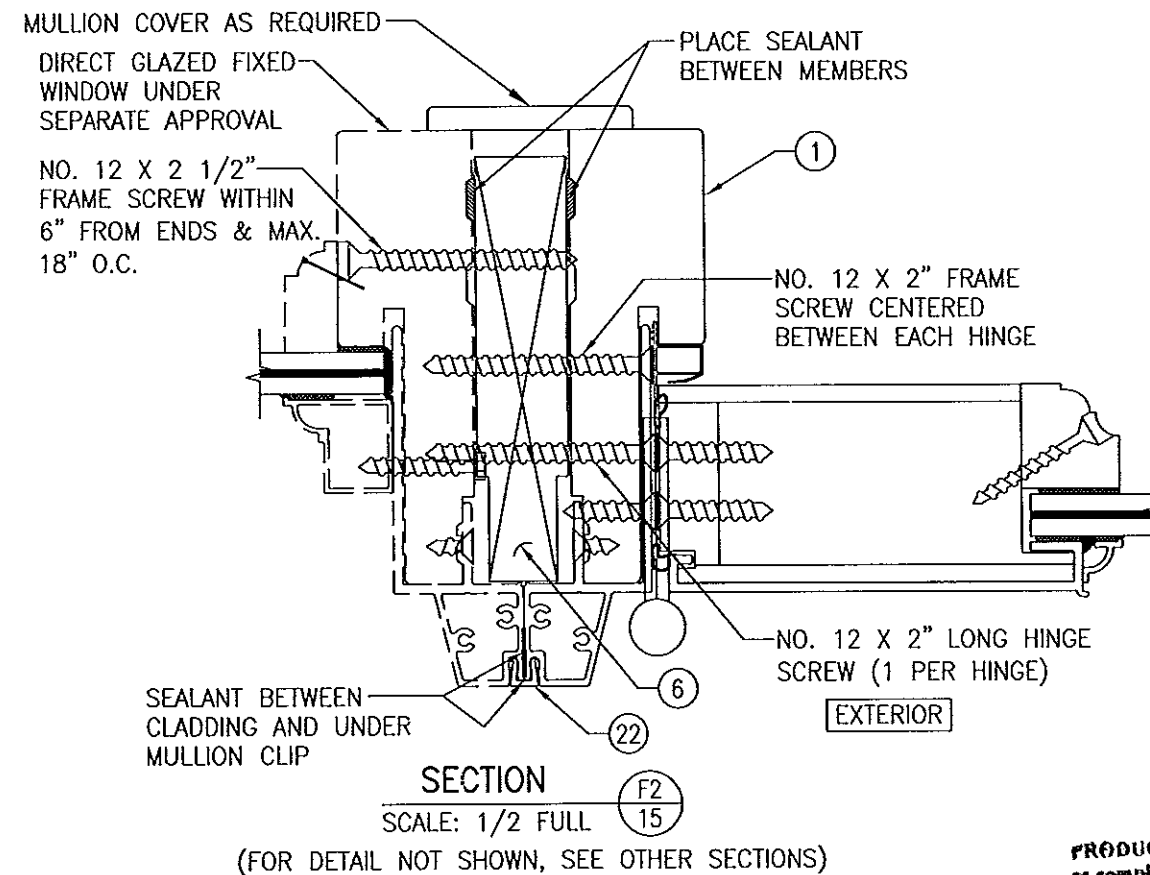
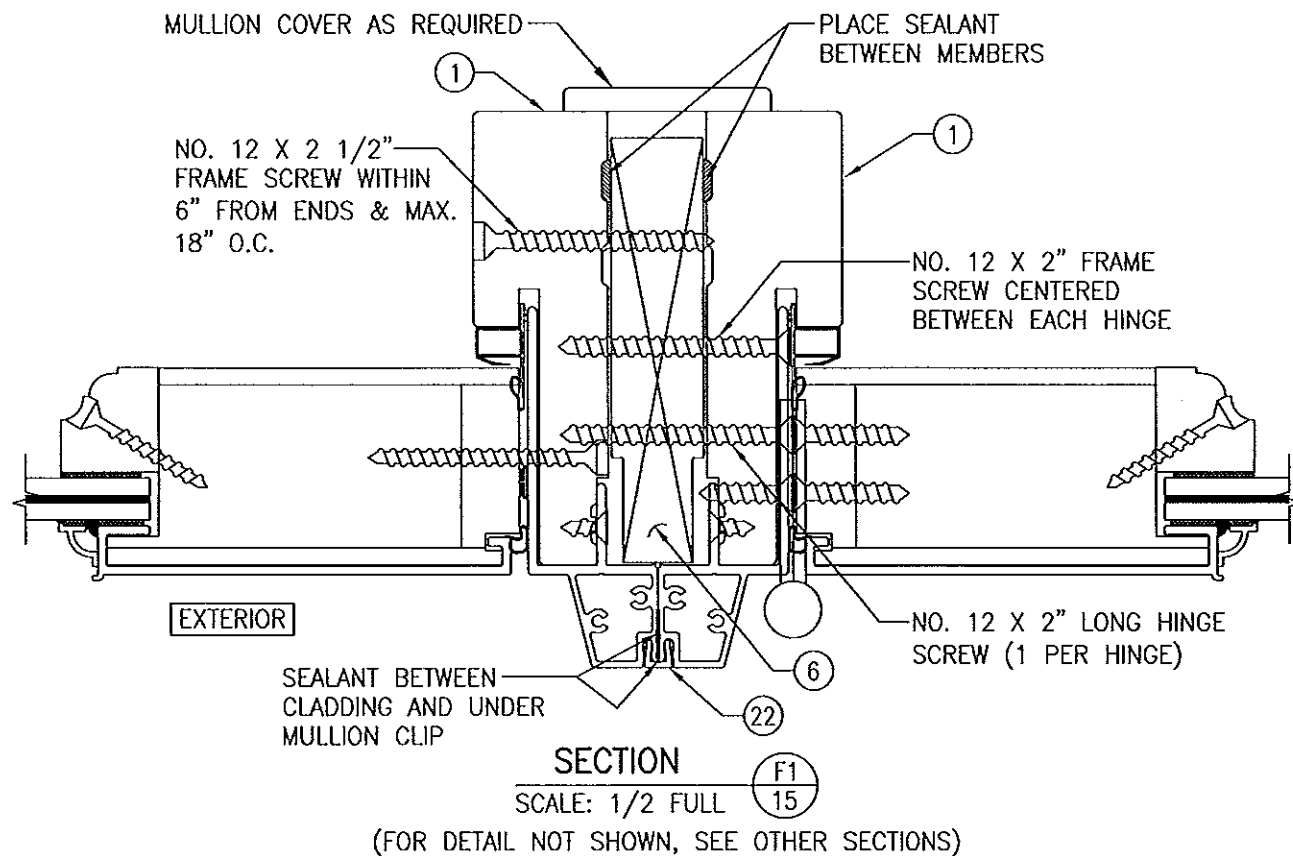


PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 14-6424-02  
Expiration Date 4/16/16  
By: [Signature]  
Miami Date Product Control

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 12-0410-11  
Expiration Date 4/16/16  
By: [Signature]  
Miami Date Product Control

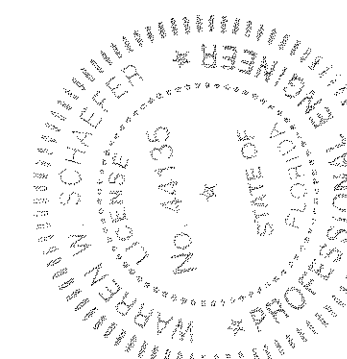


DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 07/09/12
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	MANUFACTURER ULTIMATE DOOR OF PALM BEACH, INC. 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828
CERTIFICATION AUG 02 2012 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1748	REV.
SHEET NO. 14	OF 17



PRODUCT REVISED  
as complying with the Florida  
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PRODUCT REVISED  
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Expiration Date 4/16/16  
By: [Signature]  
Miami Code Product Control



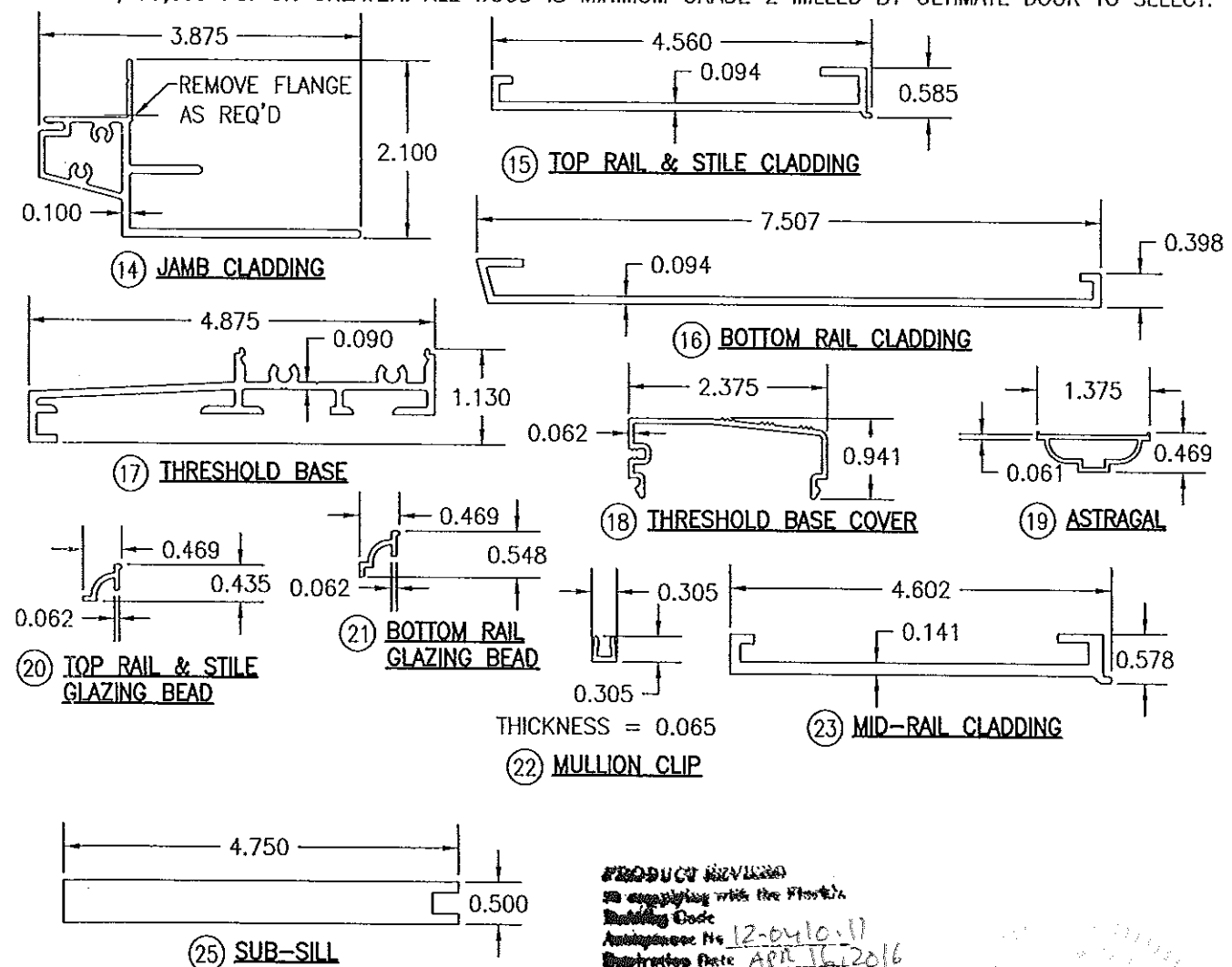
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 07/09/12
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE: ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR MANUFACTURER: ULTIMATE DOOR OF PALM BEACH, INC. 2800 2ND AVE. NORTH LAKE WORTH, FL 33461 561-642-2828 CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION	AUG 02 2012 WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1748	REV.
SHEET NO. 15 OF 17	



ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	JAMB	WOOD
2	HEAD RAIL & HINGE, INACTIVE & FIXED PANEL STILES	WOOD
3	BOTTOM RAIL	WOOD
4	HINGE & FIXED PANEL STILE	WOOD
5	ASTRAGAL	WOOD
6	MULLION	WOOD
7	GLAZING BEAD (MONOLITHIC GLASS)	WOOD
8	GLAZING BEAD (INSULATED GLASS)	WOOD
9	GLAZING BEAD (RAISED PANEL)	WOOD
10	MID-RAIL	WOOD
14	JAMB CLADDING	6063-T5 ALUMINUM
15	TOP RAIL & STILE CLADDING	6063-T5 ALUMINUM
16	BOTTOM RAIL CLADDING	6063-T5 ALUMINUM
17	THRESHOLD BASE	6063-T5 ALUMINUM
18	THRESHOLD BASE COVER	6063-T5 ALUMINUM
19	ASTRAGAL	6063-T5 ALUMINUM
20	TOP RAIL & STILE GLAZING BEAD	6063-T4 ALUMINUM
21	BOTTOM RAIL GLAZING BEAD	6063-T5 ALUMINUM
22	MULLION CLIP	6063-T5 ALUMINUM
23	MID-RAIL CLADDING	6063-T5 ALUMINUM
25	SUB-SILL	PVC
HARDWARE		
30	4 1/2" X 4 1/2" BUTT HINGE	HAGER 1191 BRASS WITH S.S. BALL BEARINGS
31	3-POINT LOCK SYSTEM (SHOOT BOLTS & DEADBOLT)	ULTIMATE DOOR UD120A
32	2-POINT LOCK SYSTEM (SHOOT BOLTS)	ULTIMATE DOOR UD120B
33	3-POINT LOCK SYSTEM (SHOOT BOLTS & DEADBOLT)	HARDKING SS963 MODIFIED
34	2-POINT LOCK SYSTEM (SHOOT BOLTS)	HARDKING SS963 MODIFIED
35	DEADBOLT	SCHLAGE B100 OR EQUIVALENT
36	FLUSH BOLT	HAGER BRASS 282D
37	HANDLE	AS REQUIRED TO OPERATE LOCK
38	4-POINT LOCK SYSTEM (TONGUE BOLTS & DEADBOLT)	SCHLEGEL FFNS-3300
SEALS & SEALANTS		
40	TOP SWEEP	PREFERRED PLASTICS EPDM ULTIL 9483360092
41	KERF WEATHERSTRIP	SCHLEGEL QLON QEBD 875
42	THRESHOLD CAP WEATHERSTRIP	PREFERRED PLASTICS EPDM GTCWL 9421815012
43	BOTTOM SWEEP	PREFERRED PLASTICS EPDM ULTIL 9411357562
44	FIXED STILE BULB WEATHERSTRIP	PEMCO SILICONE S88W510
45	HINGE WEATHERSTRIP	PREFERRED PLASTICS SILICONE ULTIL 9430965012
46	PANEL BULB WEATHERSTRIP	SCHLEGEL THERMOPLASTIC AP-425
47	GLAZING TAPE 1/16" X 7/8"	SAINT GOBIAN V2862
48	GLAZING TAPE 1/16" X 1/2"	SAINT GOBIAN V2862
49	GLAZING TAPE 1/16" X 1/4"	SAINT GOBIAN V2862
50	FIXED PANEL TOP WEATHERSTRIP	PEMCO VINYL V41GR
51	KERF WEATHERSTRIP	SCHLEGEL QLON QDS 650

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
FASTENERS		
53	NO. 6 X 3/4" SMS	3" FROM CORNERS & 12" MAX. O.C.
54	NO. 6 X 3/4" SMS	2" FROM ENDS & 16" MAX. O.C.
55	NO. 8 X 2 1/2" WOOD SCREW	3" FROM CORNERS & 9" MAX. O.C.
56	NO. 10 X 3 1/2" WOOD SCREW	3" FROM CORNERS & 9" MAX. O.C.
57	NO. 12 X 1" S.S. SMS SCREW	3 PER HINGE
58	NO. 12 X 1 1/4" S.S. SMS SCREW	4 PER HINGE
59	NO. 7 X 2 1/4 WOOD SCREW	1 1/2" FROM ENDS & 11" MAX. O.C.
60	NO. 6 X 1 5/8" WOOD SCREW	2" FROM CORNERS & 9" MAX. O.C.
61	3/8" X 6" GALV. LAG BOLT WITH 1/4" WASHER	2 PER FIXED PANEL DOORS
62	NO. 12 X 2" S.S. SMS SCREW	1 PER HINGE

**NOTE:** WOOD USED IN TESTING WAS PONDEROSA PINE WITH A SPECIFIC GRAVITY OF  $G = 0.43$  AND A MODULUS OF ELASTICITY OF  $E = 1,200,000$  PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.43 AND MODULUS OF ELASTICITY OF 1,200,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY ULTIMATE DOOR TO SELECT.



PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 14-0424.02  
Expiration Date APR 16, 2016  
By (Signature)  
Miami Code Product Control

PRODUCT REVIEWED  
in compliance with the Florida  
Building Code  
Amendment No. 12-0410-11  
Expiration Date APR 16, 2016  
By: [Signature]  
Issue Date Product Control

[illegible]

DRAWING TITLE  
ALUMINUM CLAD WOOD IMPACT OUT-SWING FRENCH DOOR

ACTURER  
ULTIMATE DOOR OF PALM BEACH, INC.  
2800 2ND AVE. NORTH  
LAKE WORTH, FL 33461  
561-642-2828

**CONSULTANTS**  
**W. W. SCHAEFER ENGINEERING**  
**& CONSULTING, P.A. (CA 6809)**  
7480 150TH COURT NORTH  
PALM BEACH GARDENS, FL 33418  
PHONE: 561-744-3424

CERTIFICATION

02 2012

WARREN W. SCHAEFER, P.E.  
P.E. NO. 44135

DRAWING NO. 1748	REV.
SHEET NO. 17 OF 17	